CERTIFICATE OF COMPLIANCE

Ref No.: NEI-EMC-3-1311C165
Date of Issue: Nov. 27, 2013

This is to certify that the product listed in follows was (were) tested in the Neutron EMC Laboratory to comply with the required criteria levels of the follow-mentioned Generic Standards or Product Family Standard(s) and/or Basic Standard(s) based-on the essential conformity requirements of Medical Directive of 93/42/EEC.

Equipment	**LCD Monitor**
Model Name	**DR-22**
Brand Name	**AG Neovo**
Applicant	**Wistron Corporation**
Address	**21F,No. 88, Sec. 1, Hsin Tai 5th Rd., Hsichih, NewTaipei city 22181,Taiwan**

Standard(s)	**EN 60601-1-2: 2007+AC:2010**
	CISPR 11: 2009+A1:2010
	EN 61000-3-2:2006+A1:2009+A2:2009 Class D
	EN 61000-3-3:2008

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-EMC-3-1311C165) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TUV Rheinland and TAF according to the ISO-17025 quality assessment standard and technical standard(s). The test data contained in the referenced test report relate only to the EUT sample and item(s) tested.

Steven Lu
Authorized Signatory

Neutron Engineering Inc.
No.3,Jinshagang 1st Road, ShiXia, Dalang Town,
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Testing Laboratory
2640

EMC Test Report

Issued Date : Nov. 27, 2013
Project No. : 1311C165
Equipment : LCD Monitor
Model Name : DR-22
Applicant : Wistron Corporation
Address : 21F,No. 88, Sec. 1, Hsin Tai 5th Rd., Hsichih, NewTaipei city 22181,Taiwan

Tested by: Neutron Engineering Inc. EMC Laboratory
Date of Receipt: Nov. 19, 2013
Date of Test: Nov. 19, 2013 ~ Nov. 26, 2013

Testing Engineer : (Lucky Mao)

Technical Manager : (James Chiu)

Authorized Signatory : (Steven Lu)

NEUTRON ENGINEERING INC.

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Testing Laboratory
2640

Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**., or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

Neutron's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **Neutron** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **Neutron** issued reports.

Neutron's reports must not be used by the client to claim product endorsement by the authorities or any agency of the Government.

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Neutron's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
NEI-EMC-3-1311C165	Original Issue.	Nov. 27, 2013

1. CERTIFICATION

Equipment	:	LCD Monitor
Brand Name	:	AG Neovo
Model Name	:	DR-22
Applicant	:	Wistron Corporation
Date of Test	:	Nov. 19, 2013 ~ Nov. 26, 2013
Test Item	:	ENGINEERING SAMPLE
Standard(s)	:	EN 60601-1-2: 2007+AC:2010 CISPR 11: 2009+A1:2010 (Group 1 Class B) EN 61000-3-2:2006 +A1:2009+A2:2009 Class D EN 61000-3-3:2008 IEC 61000-4-2: 2008 IEC 61000-4-3: 2006+A1:2007+A2:2010 IEC 61000-4-4: 2012 IEC 61000-4-5: 2005 IEC 61000-4-6: 2008 IEC 61000-4-8: 2009 IEC 61000-4-11: 2004

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-EMC-3-1311C165) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Emission (EN 60601-1-2:2007+AC:2010)				
Standard(s)	Test Item	Limit	Judgment	Remark
CISPR 11: 2009+A1:2010 (Group 1)	Conducted Emission	Class B	PASS	
	Radiated Emission	Class B	PASS	
EN 61000-3-2: 2006 +A1:2009+A2:2009	Harmonic Current Emission	Class D	PASS	NOTE (2)
EN 61000-3-3:2008	Voltage Fluctuations & Flicker	------	PASS	
Immunity (EN 60601-1-2:2007+AC:2010)				
IEC 61000-4-2:2008	Electrostatic Discharge	NOTE (2)	PASS	
IEC 61000-4-3: 2006+A1:2007+A2:2010	RF electromagnetic field		PASS	
IEC 61000-4-4: 2012	Fast transients		PASS	
IEC 61000-4-5:2005	Surges		PASS	
IEC 61000-4-6:2008	Injected Current		PASS	
IEC 61000-4-8:2009	Power Frequency Magnetic Field		PASS	
IEC 61000-4-11:2004	Volt. Interruptions Volt. Dips		PASS	

NOTE:

(1) ” N/A” denotes test is not applicable in this Test Report.

(2) The performance criteria for EN60601-1-2 are listed in the item 6.2.1.10.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C01/DG-CB08** at the location of No.3,Jinshagang 1st Road, ShiXia, Dalang Town,Dong Guan, China.523792

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **U**，where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**，providing a level of confidence of approximately **95**%。

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U，(dB)	NOTE
DG-C01	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	NOTE
DG-CB08	CISPR	30MHz ~ 1000MHz	V	3.57	
		30MHz ~ 1000MHz	H	3.96	
		1GHz~18GHz	V	3.07	
		1GHz~18GHz	H	3.62	

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	LCD Monitor
Brand Name	AG Neovo
Model Name	DR-22
OEM Brand/Model Name	N/A
Model Difference	N/A
Product Description	More details of EUT technical specification, please refer to the User's Manual.
Power Source	DC Voltage supplied from AC/DC adapter. Model / Brand: ATM065-P240 /
Power Rating	I/P AC 100-240V 50-60Hz 1.6-0.7A O/P DC 24V 2.71A
Connecting I/O Port(s)	Please refer to the User's Manual

	Manufacturer	M/N
Panel #1	CHIMEI INNOLUX	M215HGE

Cable Type	Shielded Type	Ferrite Core	Length(m)	Note
D-Sub	Shielded	YES	1.8	Bonded two Ferrite Cores
DVI	Shielded	YES	1.8	Bonded two Ferrite Cores
Audio	Shielded	YES	1.8	Bonded two Ferrite Cores

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. The maximum operating frequency is 148.5MHz, so that the radiation test is up to 6GHz. (For customer requirement)

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Panel	Input Port	Resolution & Frequency	Reference Test Data Page						Remark
			Cond.		Rad. Below 1G		Rad. Above 1G		
			L	N	V	H	V	H	
CHIMEI INNOLUX	D-Sub	1920*1080 60Hz	#18	#19	#32	#33	#43	#44	Worst Mode
		1280*1024 75Hz	#20		#34				
		800*600 60Hz	#21		#35				
	DVI	1920*1080 60Hz	#22	#23	#36	#37	#45	#46	Worst Mode
		1280*1024 75Hz	#24		#38				
		800*600 60Hz	#25		#39				
	PIP (DVI+CVBS 1)		#26	#27	#40	#41	#47	#48	

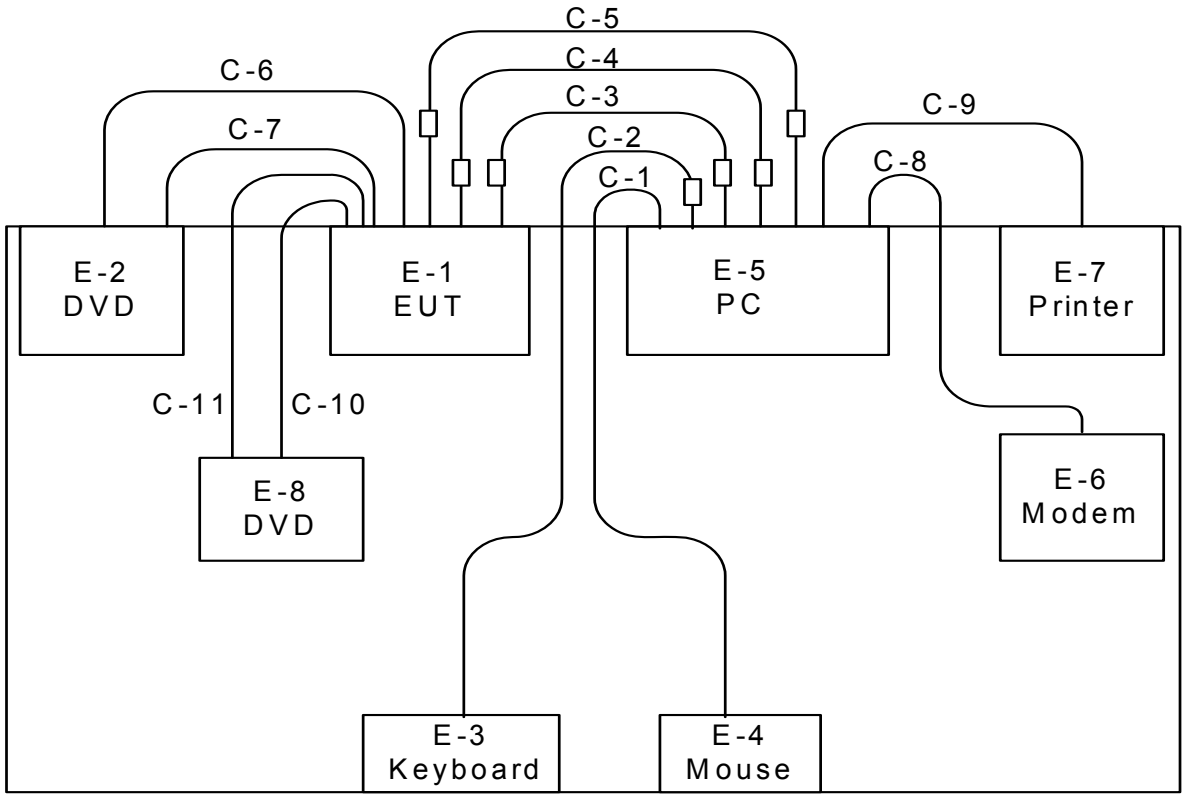
For Harmonics Test				
Final Test Mode			Reference Test Data Page	
Panel	Input Port	Resolution & Frequency	Current	Voltage
CHIMEI INNOLUX	DVI	1920*1080 60Hz	#52	#53

For Flicks Test			
Final Test Mode			Reference Test Data Page
Panel	Input Port	Resolution & Frequency	
CHIMEI INNOLUX	DVI	1920*1080 60Hz	#56

For EMS Test			
Final Test Mode			**Reference Test Data Page**
Panel	Input Port	Resolution & Frequency	
CHIMEI INNOLUX	DVI	1920*1080 60Hz	NOTE (1)

Note: Please refer to page 58 in the test report.

3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



C-1 USB Cable
C-2 USB Cable
C-3 D-Sub Cable
C-4 DVI Cable
C-5 Audio Cable
C-6 S-Video Cable
C-7 AV Cable
C-8 RS232 Cable
C-9 Parallel Cable
C-10 HDMI Cable
C-11 AV Cable

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	LCD Monitor	AG Neovo	DR-22	DOC	N/A	EUT
E-2	DVD Player	Pioneer	DV-400	VER	GFKD000248CN	
E-3	keyboard	hp	SK-2885	DOC	N/A	
E-4	mouse	hp	SM-202	DOC	N/A	
E-5	PC	Dell	745	DOC	G7K832X	
E-6	Modem	ACEEX	DM-1414V	IFAXDm1414	0603002131	
E-7	Printer	SII	DPU-414	DOC	3018507 B	
E-8	DVD Player	sony	BD-S490	VER	4028055	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	NO	1.8m	
C-2	YES	YES	1.8m	
C-3	YES	YES	1.8m	2 Cores
C-4	YES	YES	1.8m	2 Cores
C-5	YES	YES	1.8m	2 Cores
C-6	YES	NO	1.5m	
C-7	NO	NO	1.5m	
C-8	YES	NO	1.8m	
C-9	YES	NO	1.5m	
C-10	YES	NO	1.8m	

Note:

(1) The support equipment was authorized by Declaration of Conformity.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION (FREQUENCY RANGE 150KHZ-30MHZ)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2SH	00052766	Apr. 25, 2014
2	LISN	R&S	ENV216	100526	Feb. 25, 2014
3	Test Cable	N/A	RG400 12m	N/A	Mar. 15, 2014
4	EMI Test Receiver	R&S	ESCS30	826547/022	Apr. 25, 2014
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Apr. 25, 2014

Remark: ” N/A” denotes No Model Name , Serial No. or No Calibration specified.

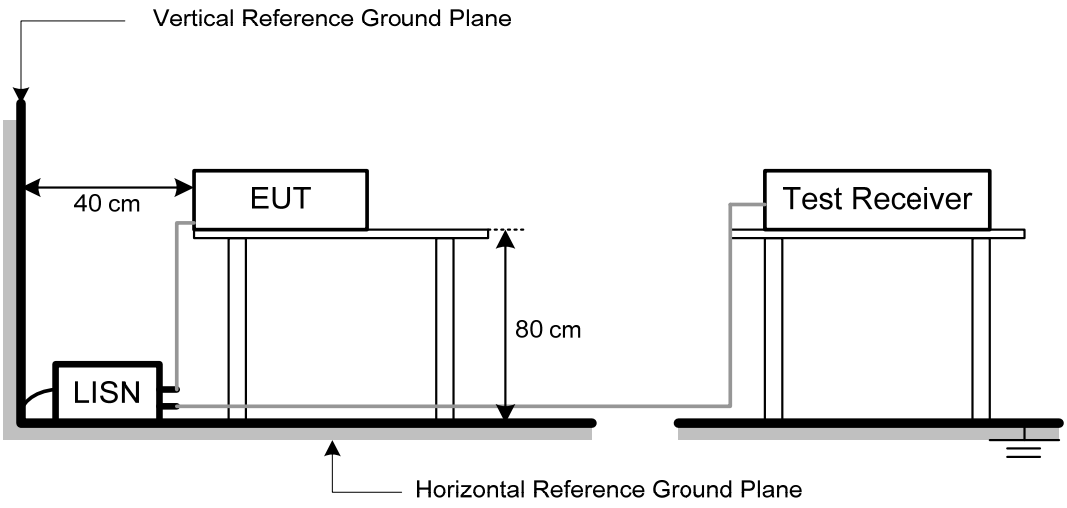
4.1.3 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



4.1.6 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. The program contained on a PC hard disk and is auto-starting on power-up. Once loaded, the program sequentially exercises each system component in turn. The sequence used is:

1. Read (write) from (to) mass storage device.
2. Send " H " pattern to video port device (Monitor).
3. Send " H " pattern to parallel port device (Printer).
4. Send " H " pattern to serial port device (Modem).
5. EUT Connected to PC via audio cable.
6. EUT connected to DVD via S-Video & AV cable.
7. Repeated from 2 to 6 continuously.

As the keyboard and mouse are strictly input devices, no data is transmitted to (from) them during test. They are, however, continuously scanned for data input activity.

4.1.7 TEST RESULTS

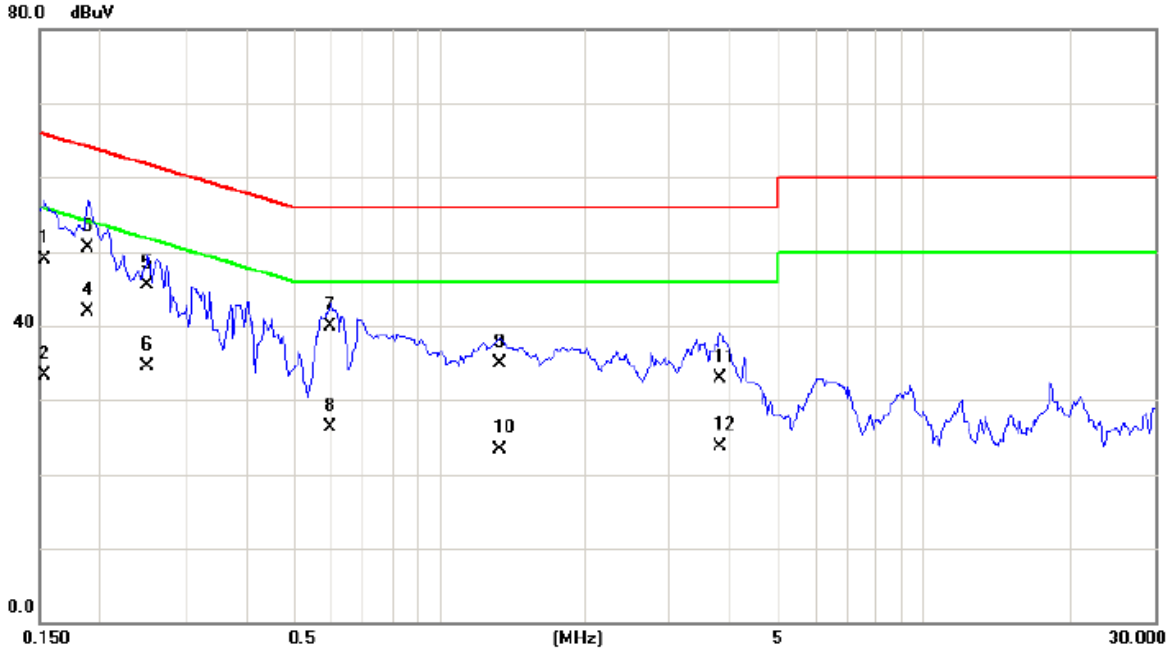
Remark:

(1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz,VBW =10KHz, Swp. Time =0.3 sec./MHz.

(2) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.

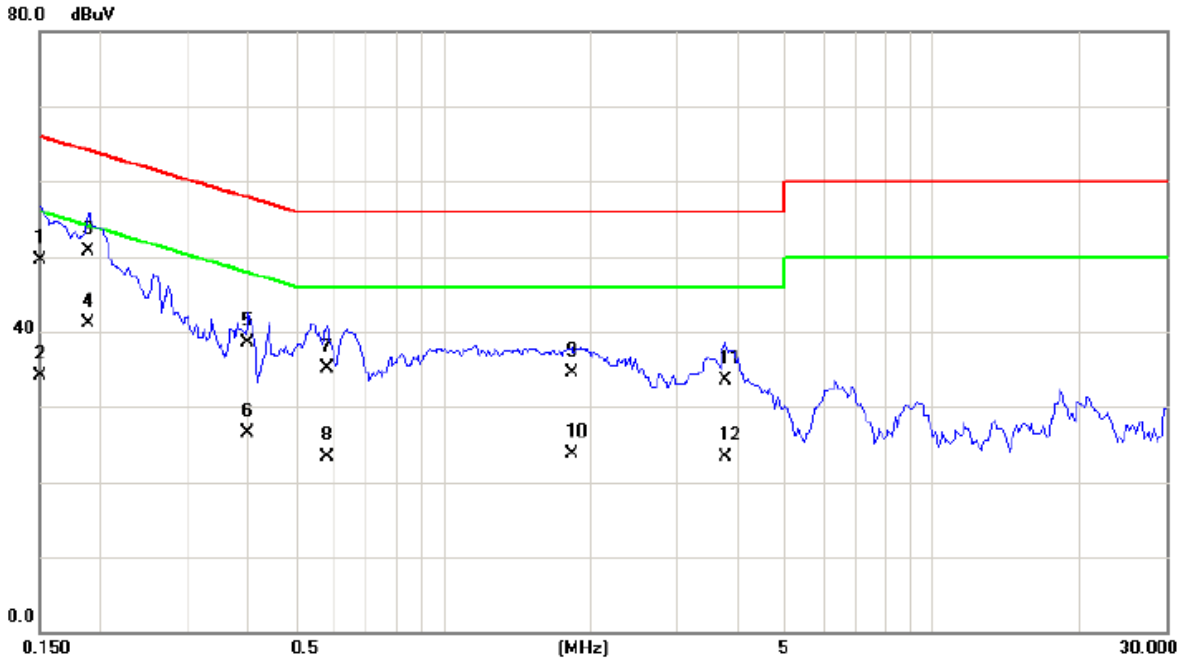
(3) Measuring frequency range from 150KHz to 30MHz.

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	D-Sub 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX/ M215HGE
Test Engineer :	Lucky Mao	Phase:	Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1540	39.20	9.63	48.83	65.78	-16.95	QP	
2		0.1540	23.60	9.63	33.23	55.78	-22.55	AVG	
3		0.1891	40.90	9.65	50.55	64.08	-13.53	QP	
4	*	0.1891	32.20	9.65	41.85	54.08	-12.23	AVG	
5		0.2516	35.80	9.66	45.46	61.70	-16.24	QP	
6		0.2516	24.90	9.66	34.56	51.70	-17.14	AVG	
7		0.5992	30.30	9.70	40.00	56.00	-16.00	QP	
8		0.5992	16.60	9.70	26.30	46.00	-19.70	AVG	
9		1.3375	25.20	9.78	34.98	56.00	-21.02	QP	
10		1.3375	13.50	9.78	23.28	46.00	-22.72	AVG	
11		3.8008	23.10	9.88	32.98	56.00	-23.02	QP	
12		3.8008	13.90	9.88	23.78	46.00	-22.22	AVG	

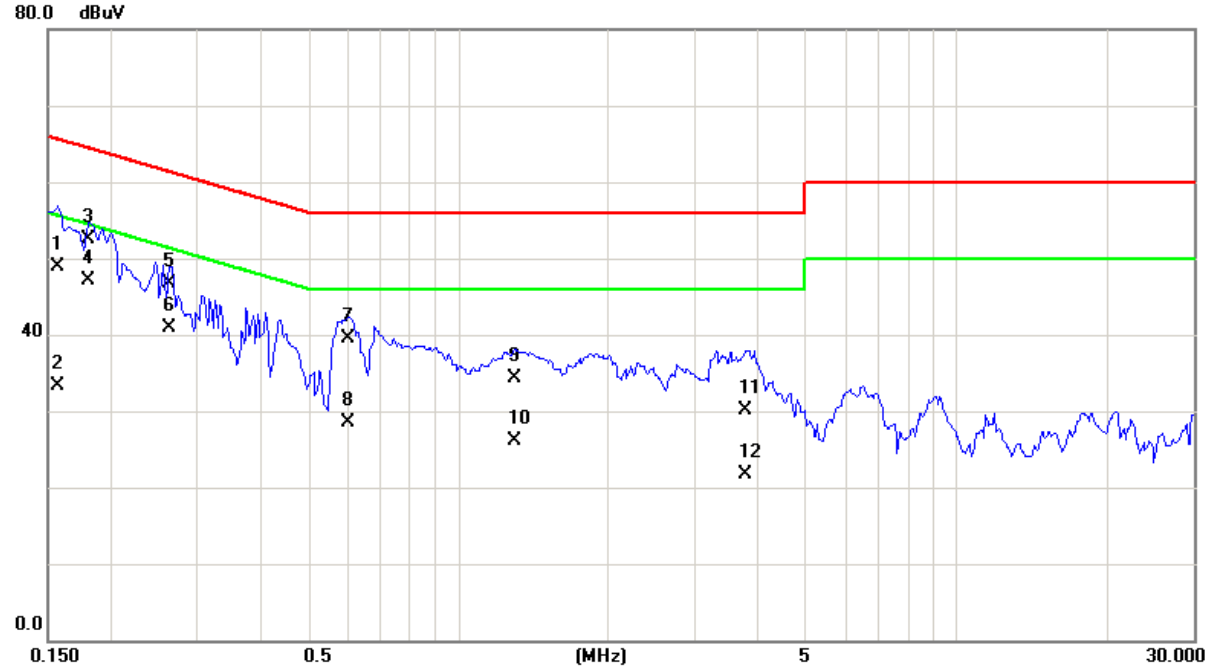
EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	D-Sub 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX/ M215HGE
Test Engineer :	Lucky Mao	Phase:	Neutral



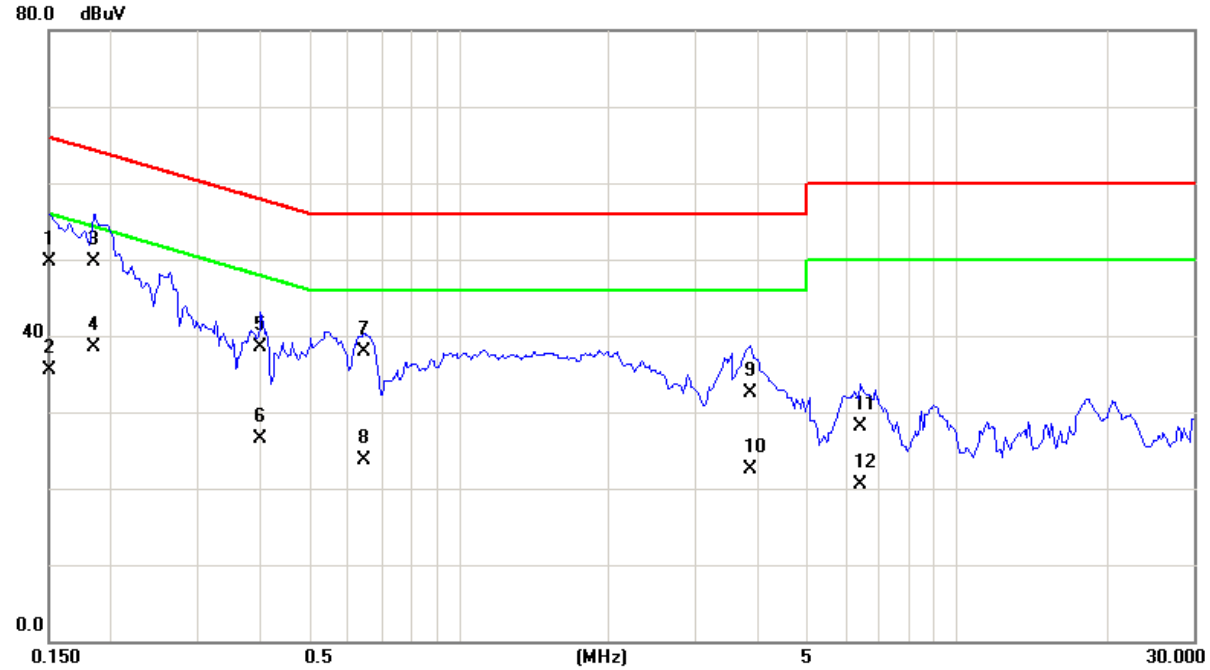
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	39.80	9.70	49.50	66.00	-16.50	QP	
2		0.1500	24.40	9.70	34.10	56.00	-21.90	AVG	
3		0.1891	41.00	9.71	50.71	64.08	-13.37	QP	
4	*	0.1891	31.30	9.71	41.01	54.08	-13.07	AVG	
5		0.4000	28.70	9.73	38.43	57.85	-19.42	QP	
6		0.4000	16.80	9.73	26.53	47.85	-21.32	AVG	
7		0.5797	25.40	9.74	35.14	56.00	-20.86	QP	
8		0.5797	13.60	9.74	23.34	46.00	-22.66	AVG	
9		1.8336	24.60	9.85	34.45	56.00	-21.55	QP	
10		1.8336	13.80	9.85	23.65	46.00	-22.35	AVG	
11		3.7734	23.50	9.91	33.41	56.00	-22.59	QP	
12		3.7734	13.40	9.91	23.31	46.00	-22.69	AVG	

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	D-Sub 1280*1024 75Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX/ M215HGE
Test Engineer :	Lucky Mao		

Line

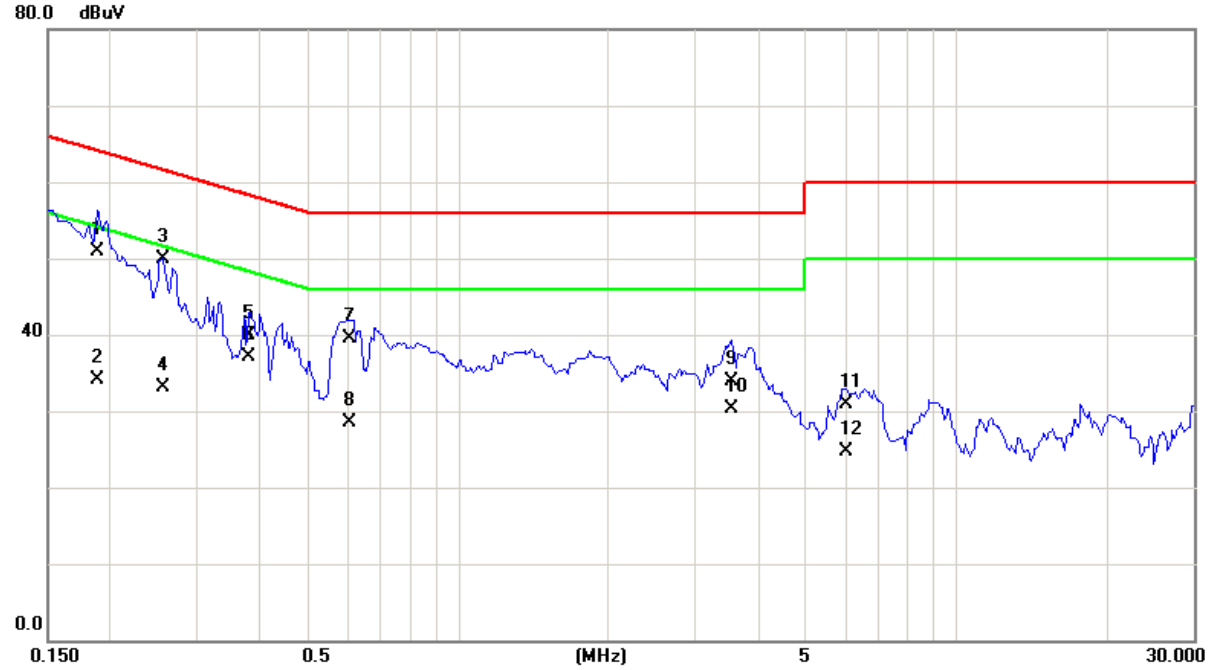


Neutral

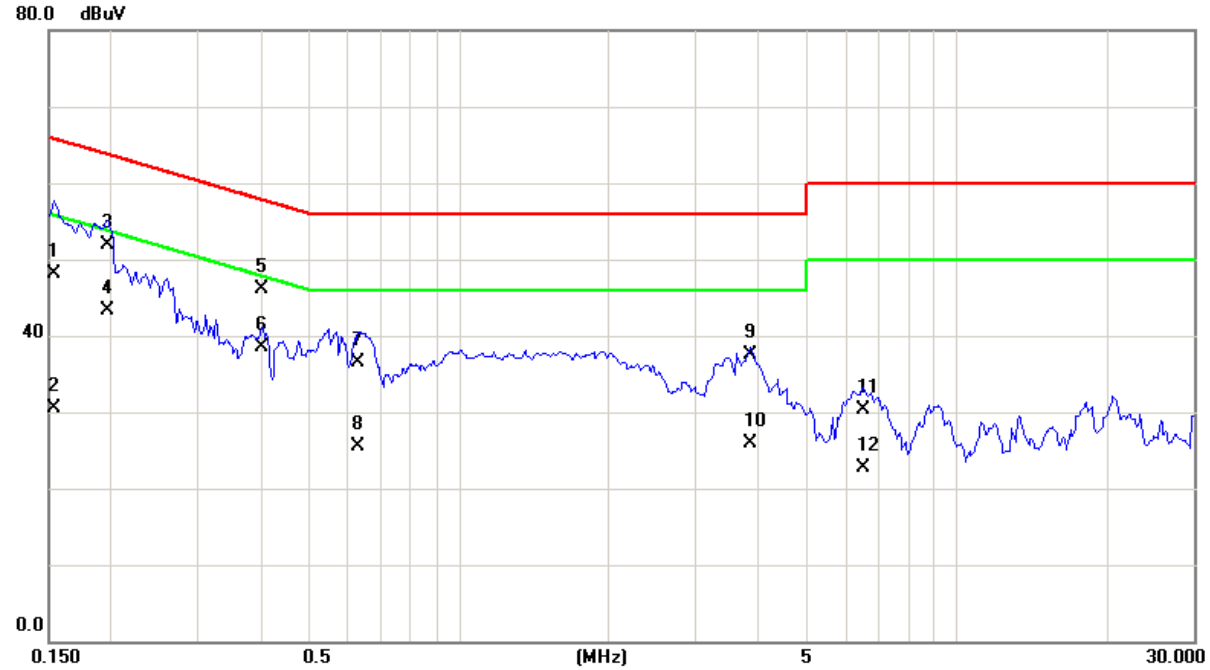


EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	D-Sub 800*600 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX/ M215HGE
Test Engineer :	Lucky Mao		

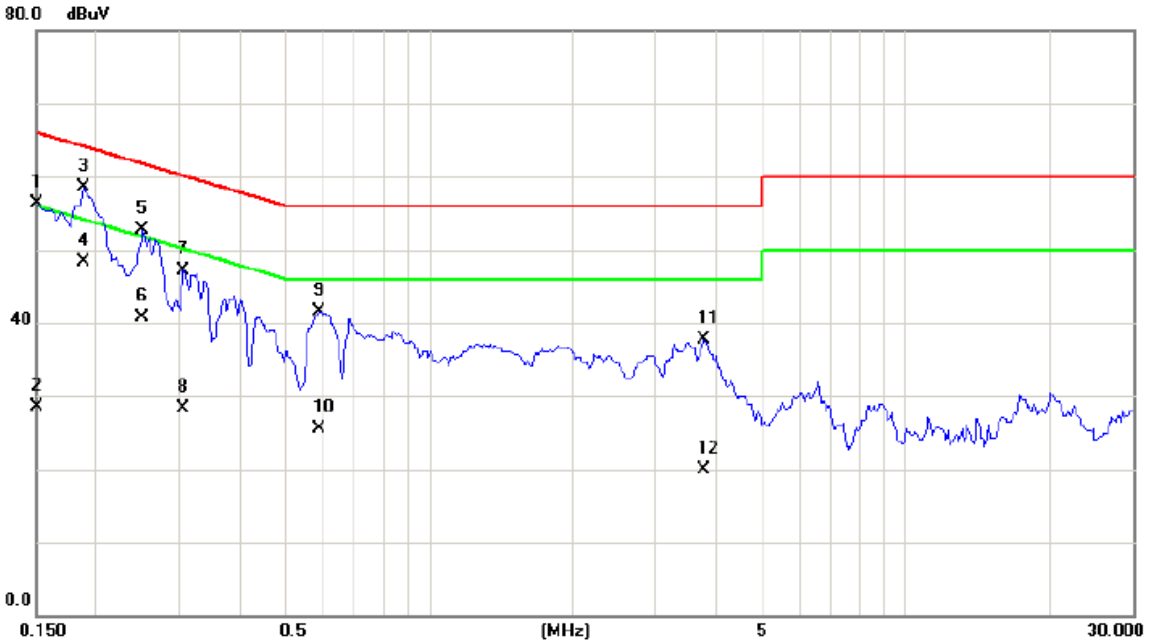
Line



Neutral

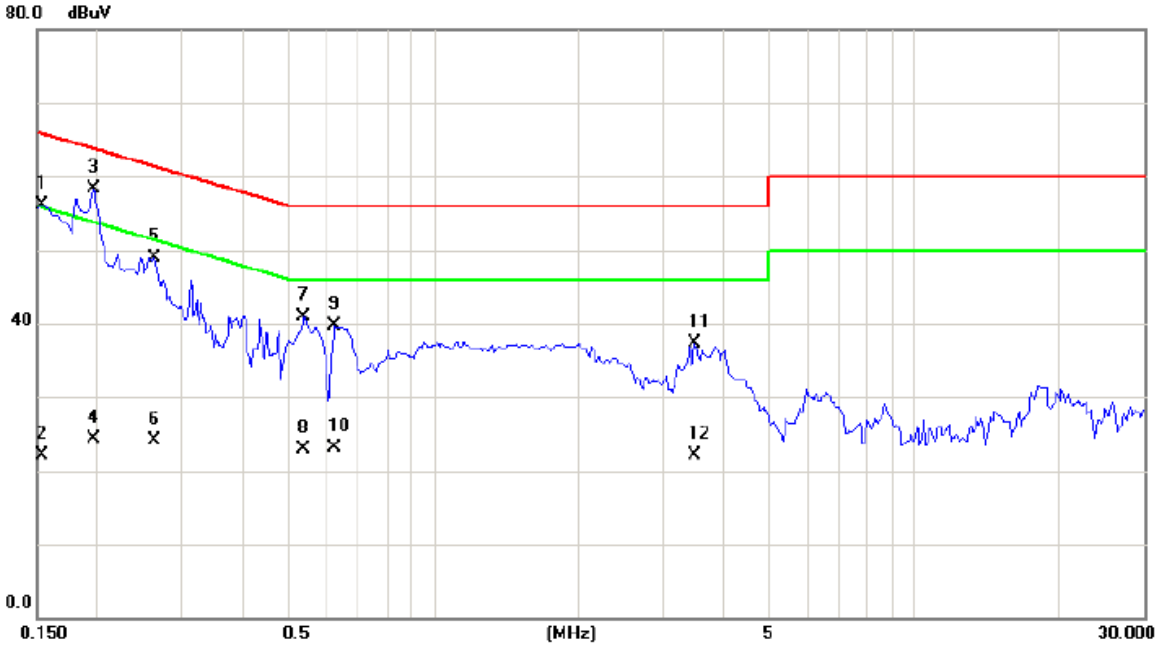


EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX/ M215HGE
Test Engineer :	Lucky Mao	Phase:	Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	46.67	9.63	56.30	66.00	-9.70	QP	
2		0.1500	18.90	9.63	28.53	56.00	-27.47	AVG	
3	*	0.1890	48.80	9.65	58.45	64.08	-5.63	QP	
4		0.1890	38.60	9.65	48.25	54.08	-5.83	AVG	
5		0.2515	43.05	9.66	52.71	61.71	-9.00	QP	
6		0.2515	31.10	9.66	40.76	51.71	-10.95	AVG	
7		0.3062	37.41	9.67	47.08	60.07	-12.99	QP	
8		0.3062	18.70	9.67	28.37	50.07	-21.70	AVG	
9		0.5914	31.87	9.70	41.57	56.00	-14.43	QP	
10		0.5914	15.80	9.70	25.50	46.00	-20.50	AVG	
11		3.7772	27.74	9.88	37.62	56.00	-18.38	QP	
12		3.7772	10.10	9.88	19.98	46.00	-26.02	AVG	

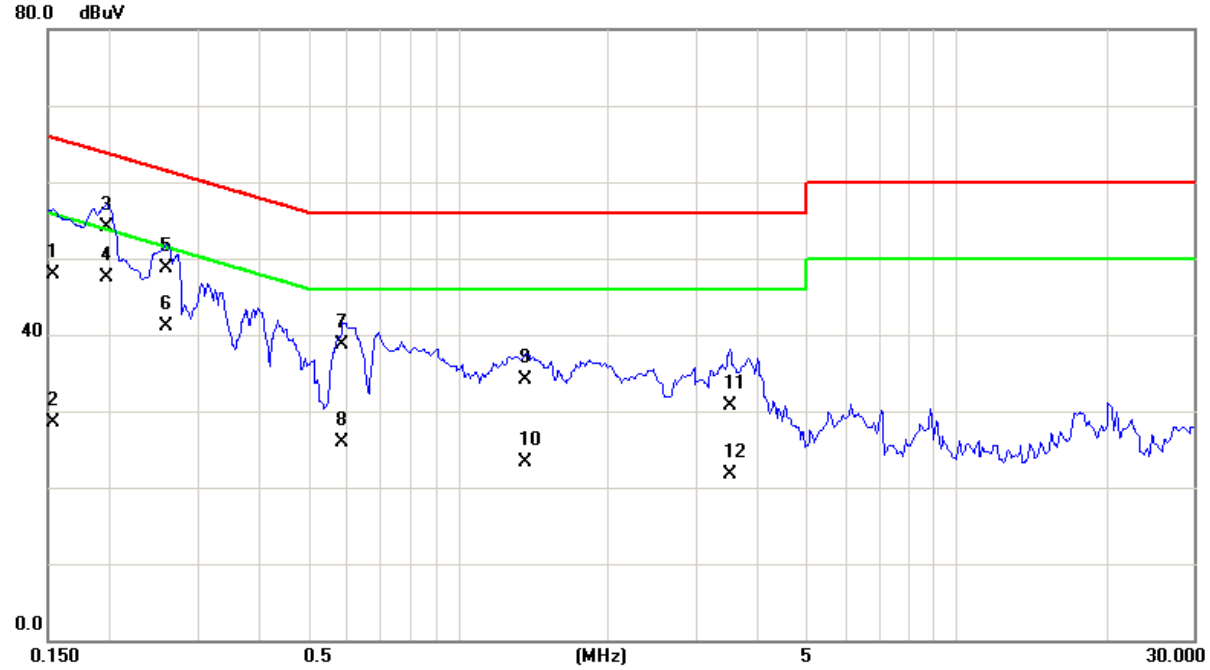
EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX/ M215HGE
Test Engineer :	Lucky Mao	Phase:	Neutral



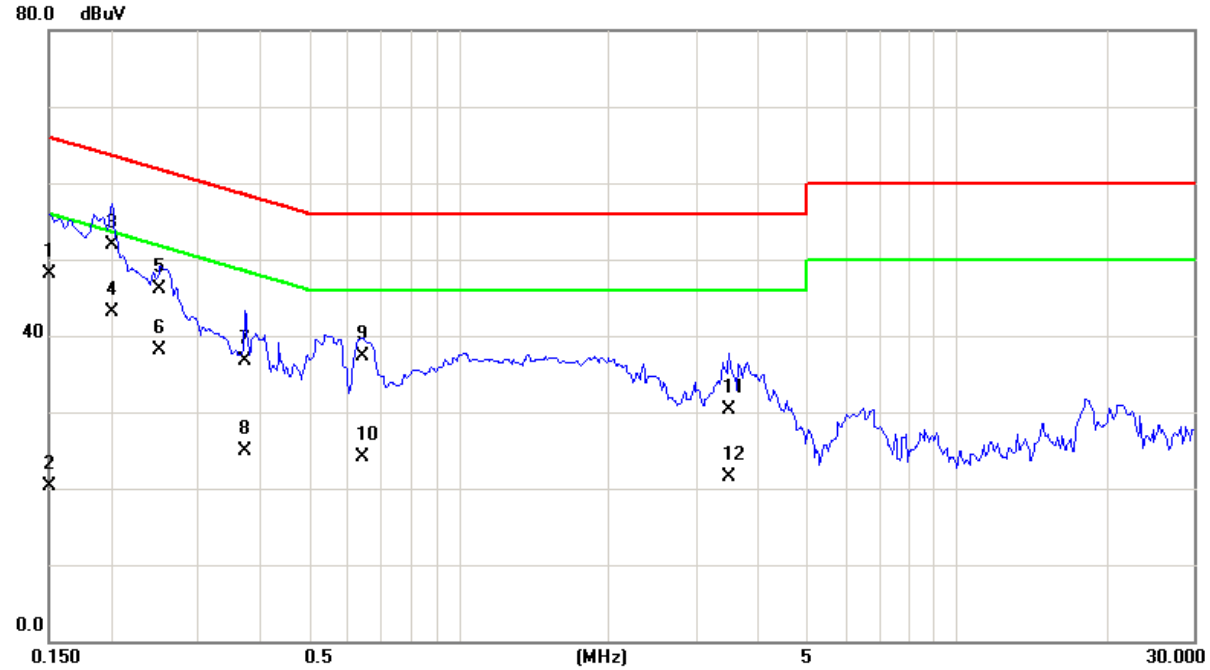
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1540	46.45	9.70	56.15	65.78	-9.63	QP	
2		0.1540	12.50	9.70	22.20	55.78	-33.58	AVG	
3	*	0.1968	48.52	9.71	58.23	63.74	-5.51	QP	
4		0.1968	14.50	9.71	24.21	53.74	-29.53	AVG	
5		0.2632	39.23	9.72	48.95	61.33	-12.38	QP	
6		0.2632	14.30	9.72	24.02	51.33	-27.31	AVG	
7		0.5406	31.22	9.74	40.96	56.00	-15.04	QP	
8		0.5406	13.20	9.74	22.94	46.00	-23.06	AVG	
9		0.6264	29.87	9.75	39.62	56.00	-16.38	QP	
10		0.6264	13.40	9.75	23.15	46.00	-22.85	AVG	
11		3.4960	27.35	9.90	37.25	56.00	-18.75	QP	
12		3.4960	12.30	9.90	22.20	46.00	-23.80	AVG	

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 1280*1024 75Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX/ M215HGE
Test Engineer :	Lucky Mao		

Line



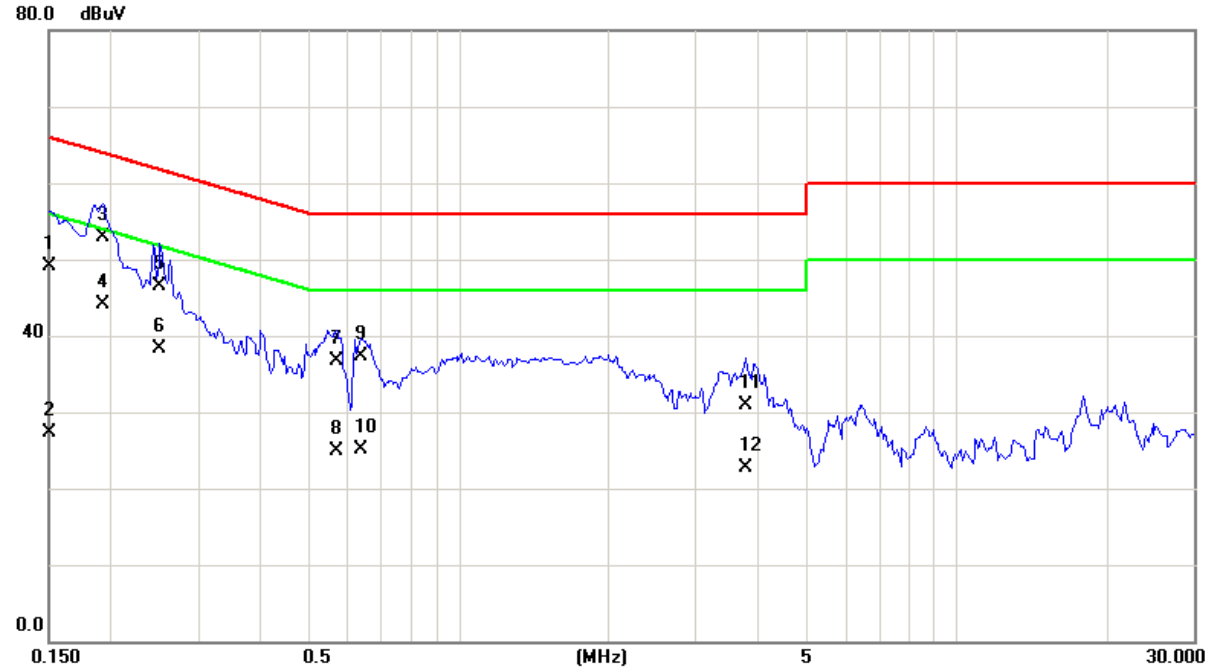
Neutral



EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 800*600 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX/ M215HGE
Test Engineer :	Lucky Mao		

Line

Neutral



EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	PIP (DVI+CVBS 1) Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX/ M215HGE
Test Engineer :	Lucky Mao	Phase:	Line

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.2008	44.50	9.57	54.07	63.58	-9.51	QP	
2		0.2008	33.90	9.57	43.47	53.58	-10.11	AVG	
3		0.2555	39.20	9.57	48.77	61.58	-12.81	QP	
4		0.2555	31.50	9.57	41.07	51.58	-10.51	AVG	
5		0.3183	33.25	9.57	42.82	59.75	-16.93	QP	
6		0.3183	28.40	9.57	37.97	49.75	-11.78	AVG	
7		0.4078	31.44	9.58	41.02	57.69	-16.67	QP	
8		0.4078	24.70	9.58	34.28	47.69	-13.41	AVG	
9		0.5953	26.08	9.58	35.66	56.00	-20.34	QP	
10		0.5953	18.10	9.58	27.68	46.00	-18.32	AVG	
11		3.7852	19.20	9.61	28.81	56.00	-27.19	QP	
12		3.7852	12.50	9.61	22.11	46.00	-23.89	AVG	

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	PIP (DVI+CVBS 1) Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX/ M215HGE
Test Engineer :	Lucky Mao	Phase:	Neutral

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1930	45.54	9.55	55.09	63.91	-8.82	QP	
2		0.1930	34.50	9.55	44.05	53.91	-9.86	AVG	
3		0.2594	40.08	9.55	49.63	61.45	-11.82	QP	
4		0.2594	30.70	9.55	40.25	51.45	-11.20	AVG	
5		0.3102	33.62	9.56	43.18	59.97	-16.79	QP	
6		0.3102	24.80	9.56	34.36	49.97	-15.61	AVG	
7		0.5875	25.68	9.57	35.25	56.00	-20.75	QP	
8		0.5875	18.50	9.57	28.07	46.00	-17.93	AVG	
9		3.8633	19.40	9.66	29.06	56.00	-26.94	QP	
10		3.8633	12.40	9.66	22.06	46.00	-23.94	AVG	
11		17.4453	16.90	10.18	27.08	60.00	-32.92	QP	
12		17.4453	10.20	10.18	20.38	50.00	-29.62	AVG	

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT (BELOW 1000MHZ)

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30 – 230	40	30
230 – 1000	47	37

Notes:

(1) The limit for radiated test was performed according to as following: CISPR 22/ FCC PART 15B /ICES-003.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (ABOVE 1000MHZ)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
1000-3000	76	56	70	50
3000-6000	80	60	74	54

Notes:

(1) The lower limit applies at the transition frequency.

FREQUENCY RANGE OF RADIATED MEASUREMENT (FOR UNINTENTIONAL RADIATORS)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5^{th} harmonic of the highest frequency or 6 GHz, whichever is lower

4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	EMCO	3142C	00066462	Apr. 25, 2014
2	Antenna	EMCO	3142C	00066464	Apr. 25, 2014
3	Amplifier	Agilent	8447D	2944A11203	Nov. 09, 2014
4	Amplifier	Agilent	8447D	2944A11204	Nov. 09, 2014
5	Spectrum Analyzer	Agilent	E4443A	MY48250370	Nov. 09, 2014
6	RF Pre-selector	Agilent	N9039A	MY46520201	Nov. 09, 2014
7	Test Cable	N/A	Cable_5m_8m_15m	N/A	Jan. 15, 2014
8	Test Cable	N/A	Cable_5m_11m_15m	N/A	Jan. 15, 2014
9	Spectrum Analyzer	Agilent	E4447A	MY48250208	Nov. 09, 2014
10	RF Pre-selector	Agilent	N9039A	MY46520214	Nov. 09, 2014
11	Multi-Device Controller	ETS-Lindgren	2090	N/A	N/A
12	Horn Antenna	EMCO	3115	9605-4803	Apr. 25, 2014
13	Amplifier	Agilent	8449B	3008A02584	Nov. 09, 2014
14	Spectrum Analyzer	Agilent	E4447A	MY48250208	Nov. 09, 2014
15	Test Cable	Huber+Suhner	SUCOFLEX_15m_4m	N/A	Jan. 15, 2014

Remark: ” N/A” denotes No Model Name / Serial No. and No Calibration specified.

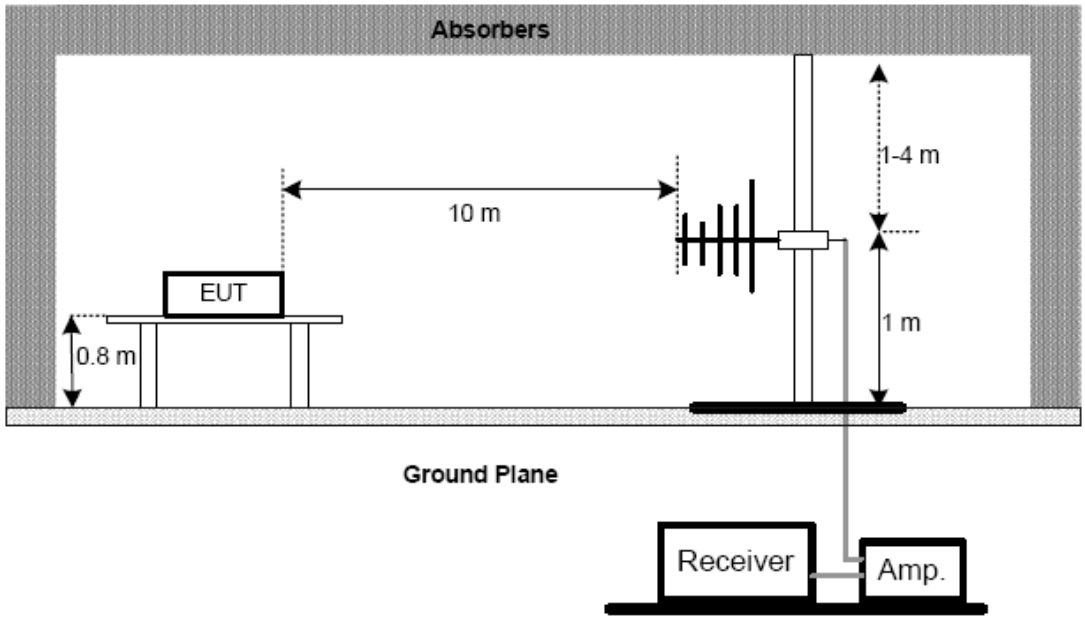
4.2.3 TEST PROCEDURE

a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. The initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

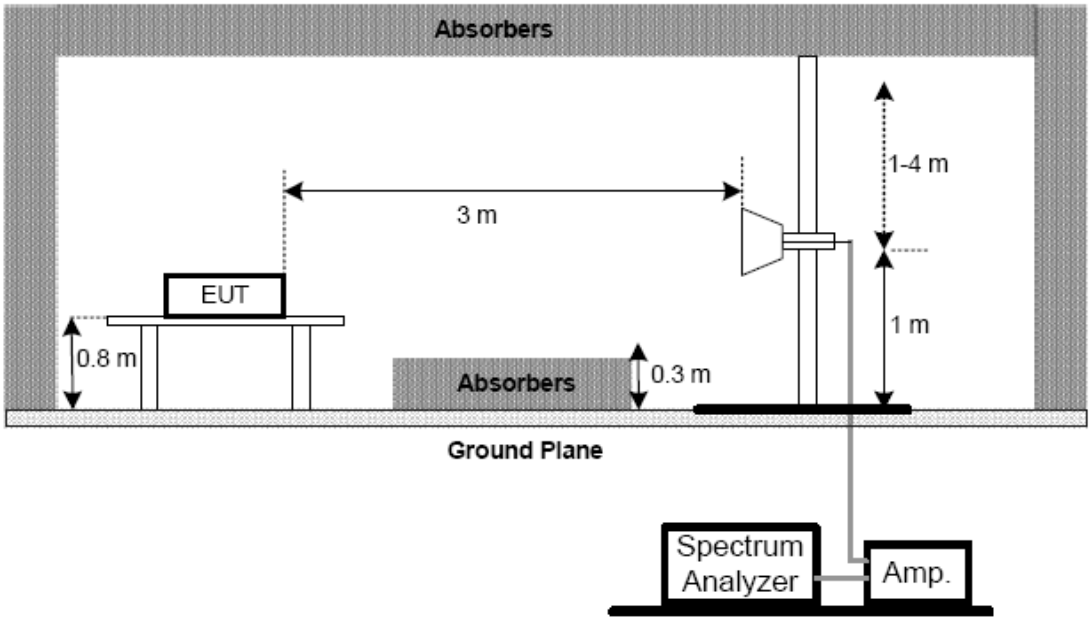
4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP (Below 1000MHz)



4.3.6 TEST SETUP (ABOVE 1000MHz)



4.3.7 EUT OPERATING CONDITIONS

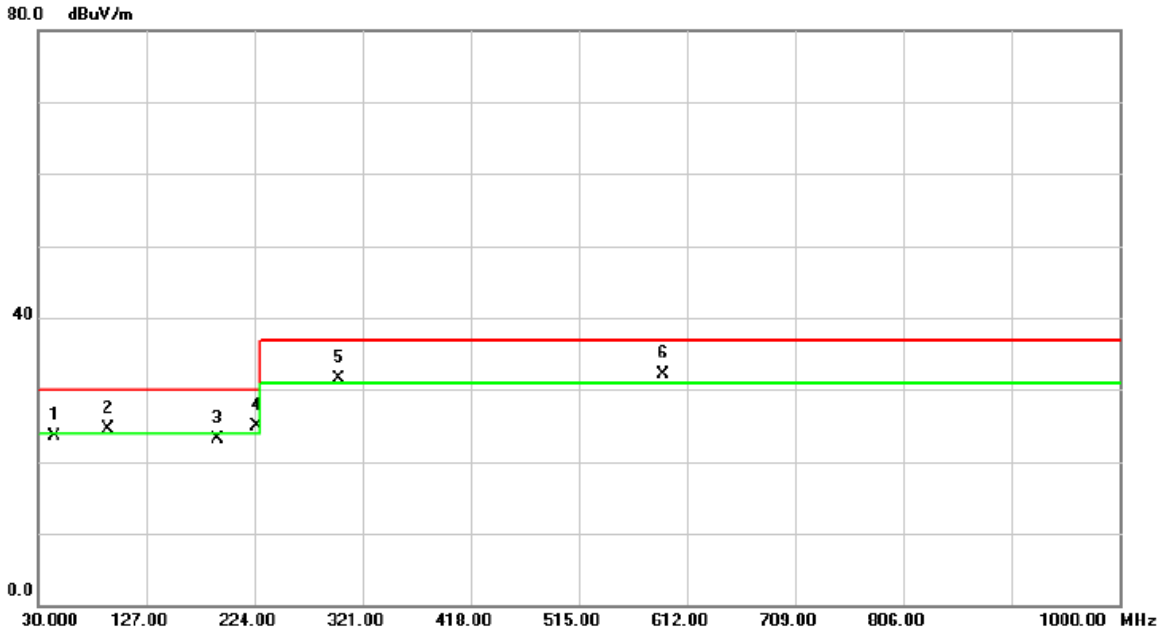
The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

4.3.8 TEST RESULTS-BETWEEN 30MHZ AND 1000MHZ

Remark :

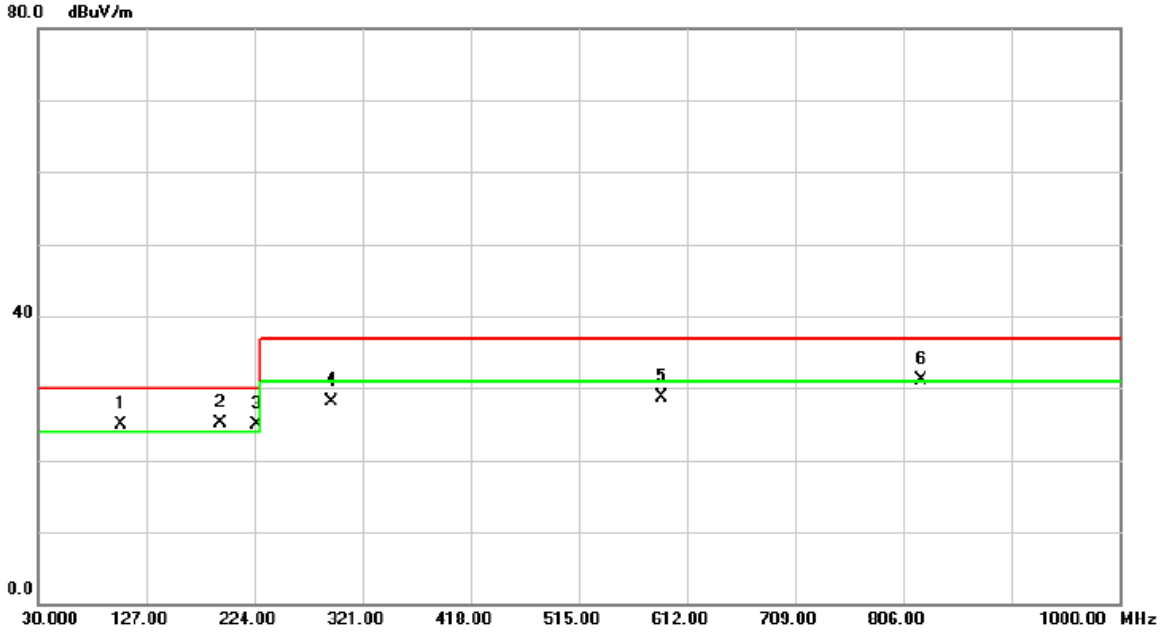
(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
(3) Measuring frequency range from 30MHz to 1000MHz.
(4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	D-Sub 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao	Polarization:	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		44.5500	40.35	-16.81	23.54	30.00	-6.46	QP	100	265	
2	!	93.0500	43.64	-19.07	24.57	30.00	-5.43	QP	100	113	
3		191.0200	38.37	-15.35	23.02	30.00	-6.98	QP	200	27	
4	!	225.9400	38.37	-13.47	24.90	30.00	-5.10	QP	200	330	
5	!	299.6600	42.70	-11.16	31.54	37.00	-5.46	QP	100	268	
6	*	590.6600	36.01	-3.81	32.20	37.00	-4.80	QP	100	26	

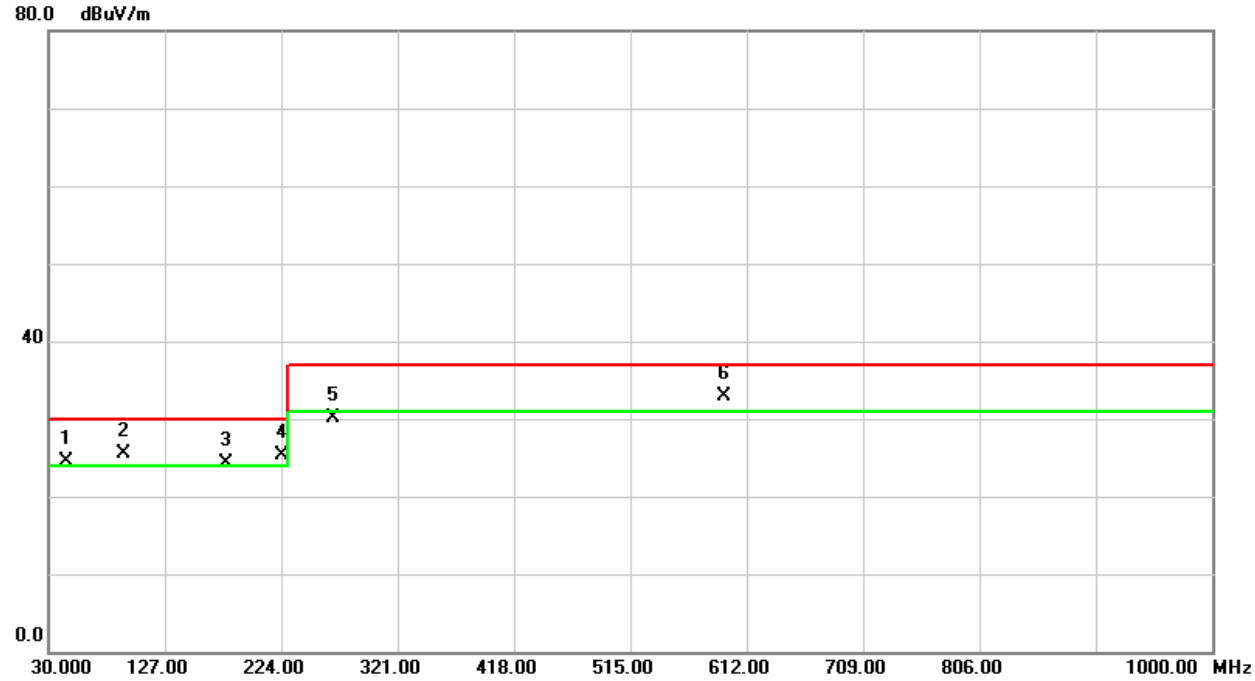
EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	D-Sub 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao	Polarization:	Horizontal



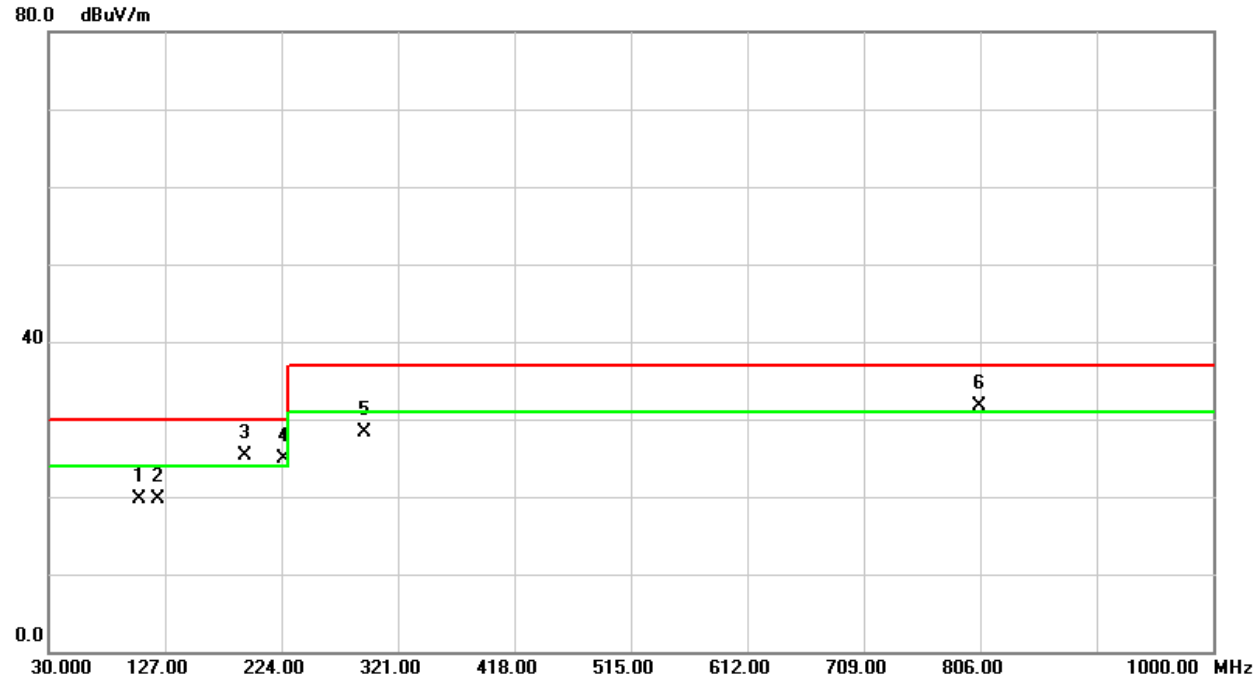
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	!	104.6900	43.39	-18.44	24.95	30.00	-5.05	QP	200	339	
2	*	192.9600	40.47	-15.35	25.12	30.00	-4.88	QP	200	258	
3	!	225.9400	38.46	-13.47	24.99	30.00	-5.01	QP	100	107	
4		292.8700	39.37	-11.28	28.09	37.00	-8.91	QP	200	29	
5		589.6900	32.61	-3.85	28.76	37.00	-8.24	QP	100	333	
6	!	821.5200	31.12	-0.03	31.09	37.00	-5.91	QP	100	215	

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	D-Sub 1280*1024 75Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao		

Vertical

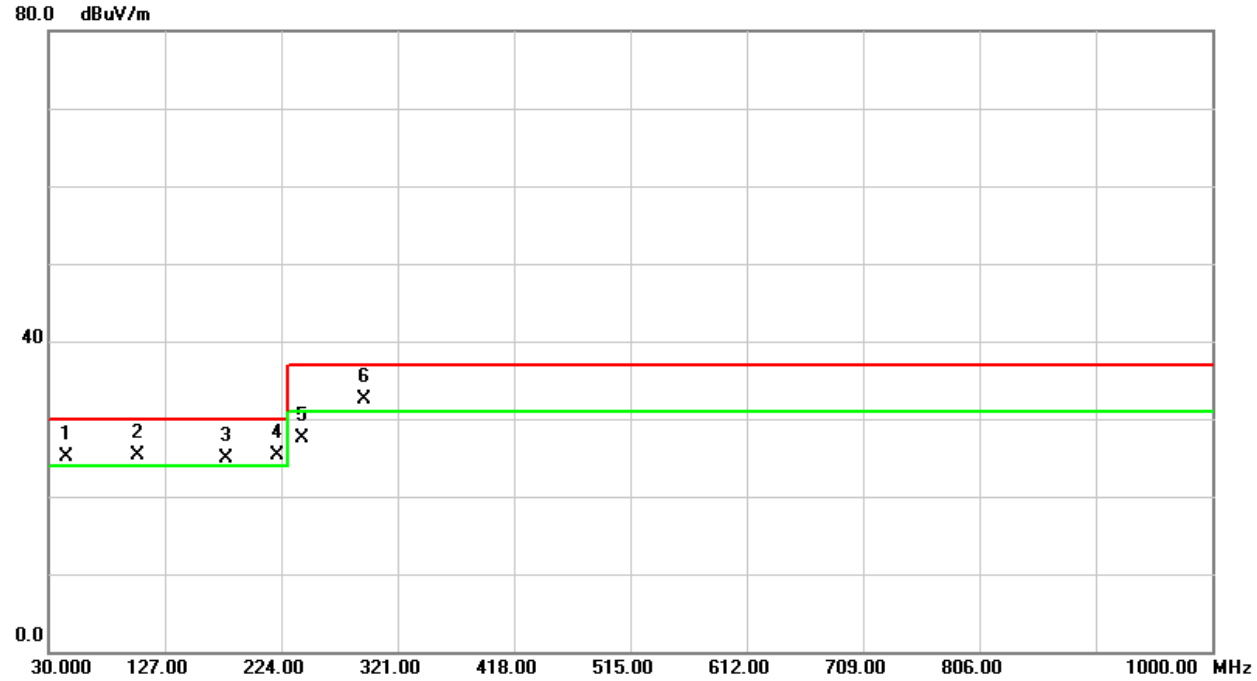


Horizontal

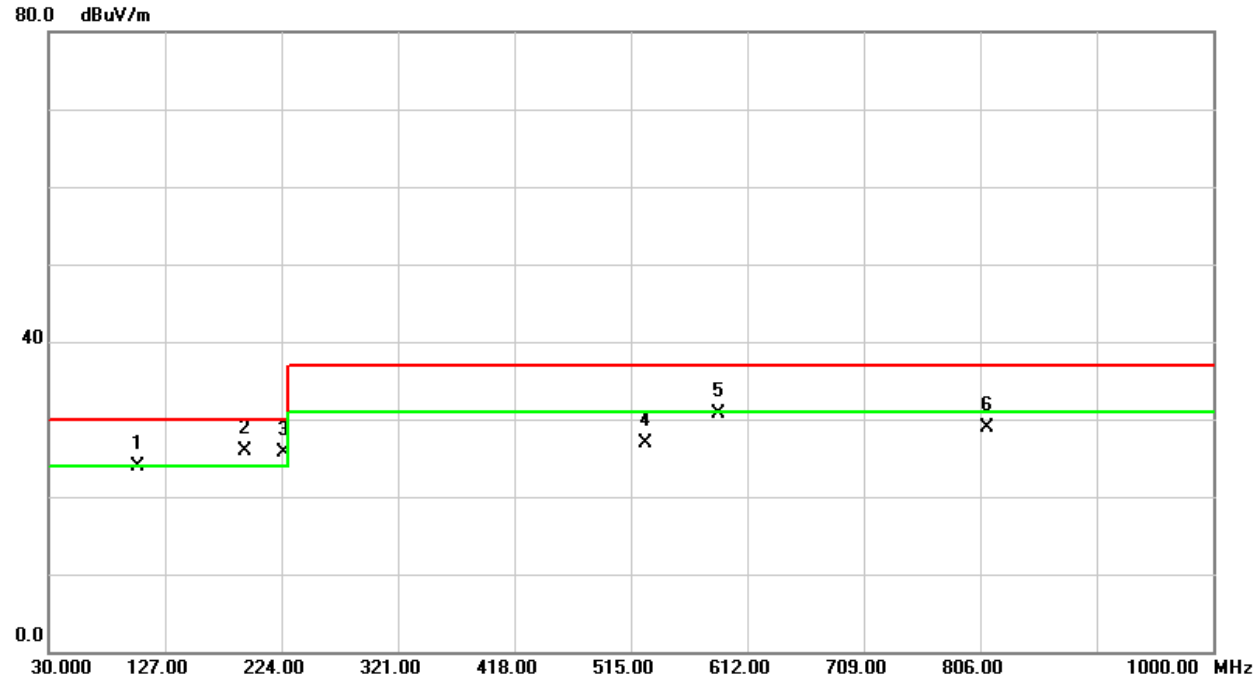


EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	D-Sub 800*600 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao		

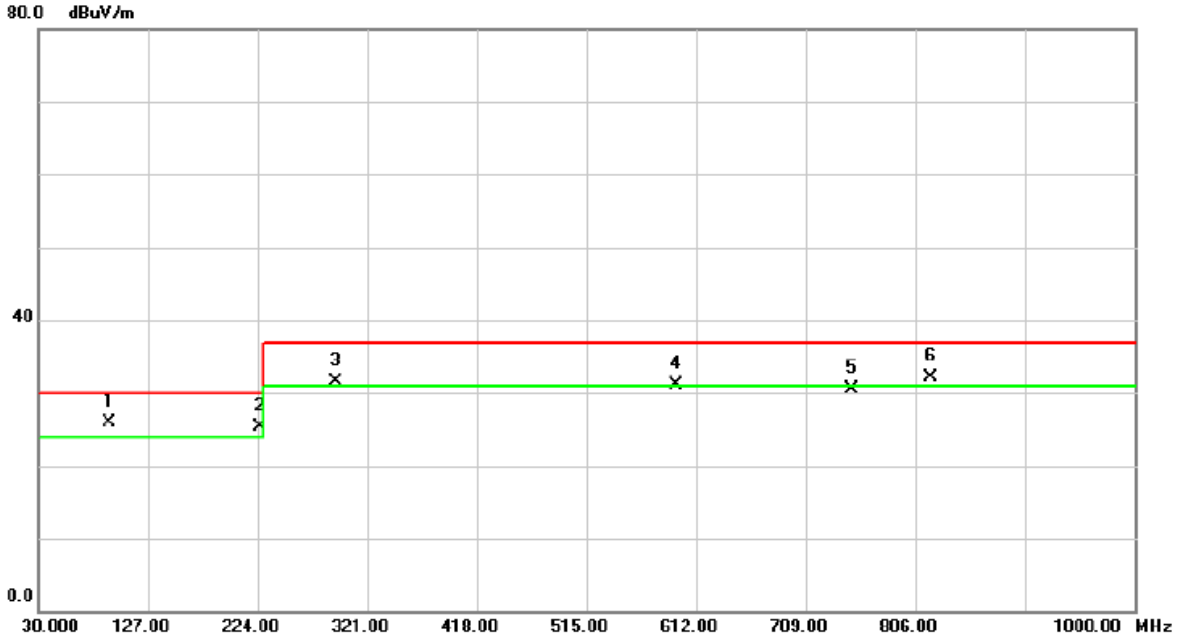
Vertical



Horizontal

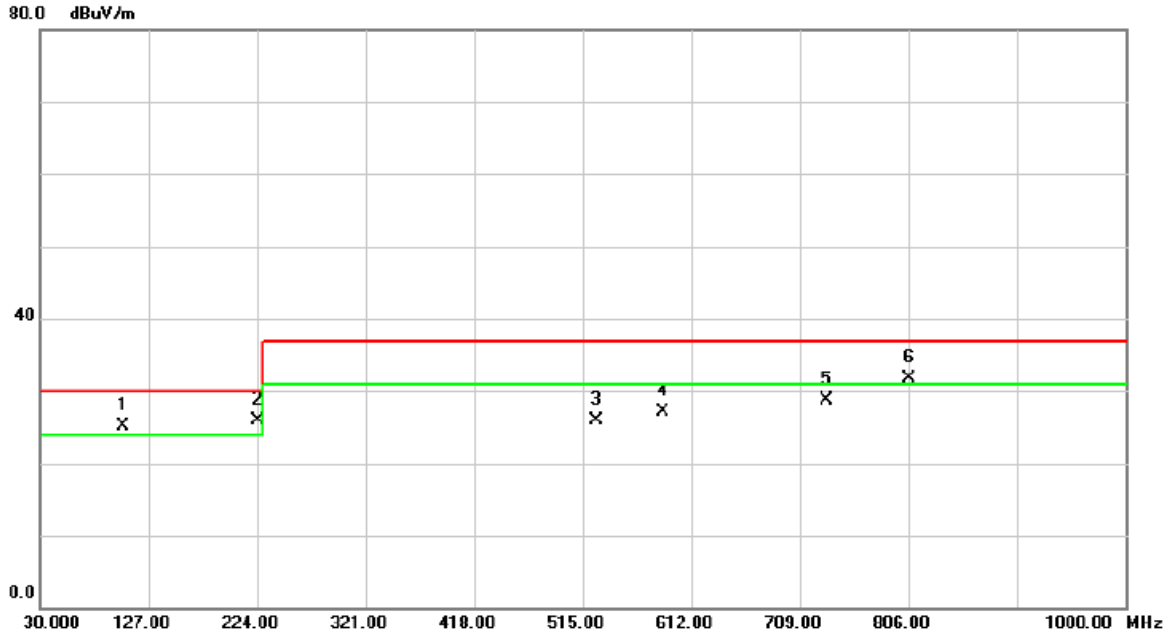


EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao	Polarization:	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	92.0800	45.18	-19.19	25.99	30.00	-4.01	QP	100	223	
2	!	225.9400	38.85	-13.47	25.38	30.00	-4.62	QP	100	267	
3	!	292.8700	42.86	-11.28	31.58	37.00	-5.42	QP	200	36	
4	!	594.5400	34.73	-3.62	31.11	37.00	-5.89	QP	100	97	
5		749.7400	31.19	-0.67	30.52	37.00	-6.48	QP	100	107	
6	!	819.5800	32.25	-0.07	32.18	37.00	-4.82	QP	200	203	

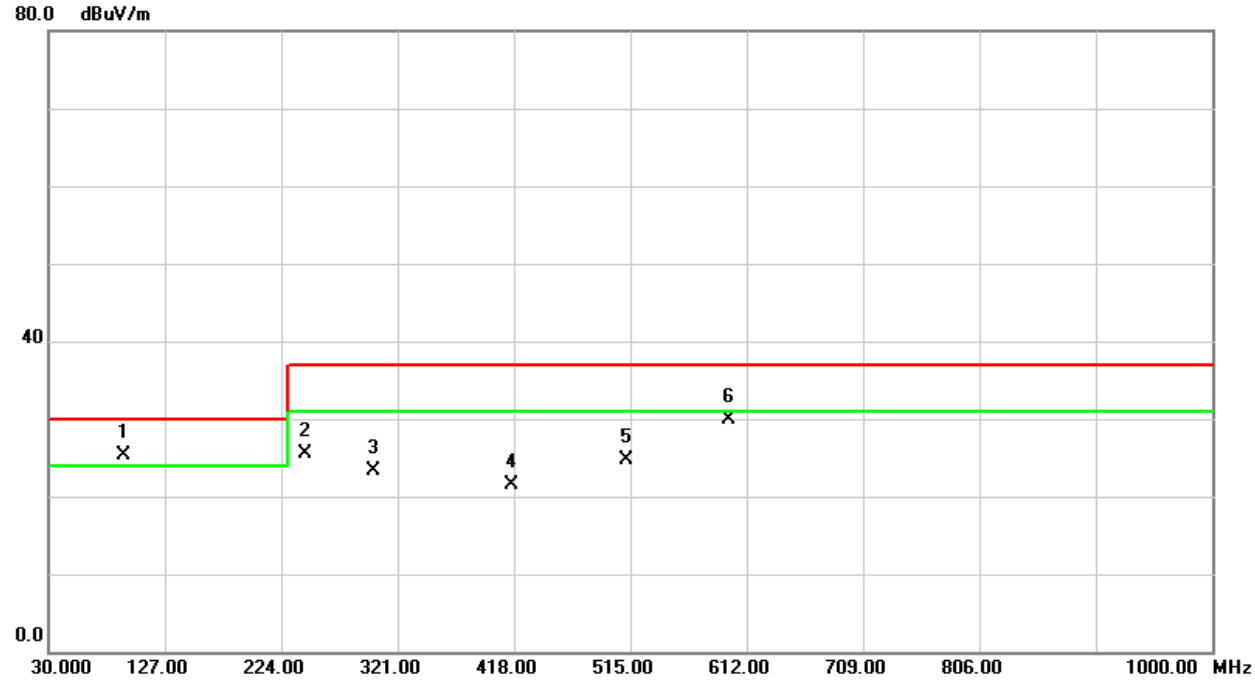
EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao	Polarization:	Horizontal



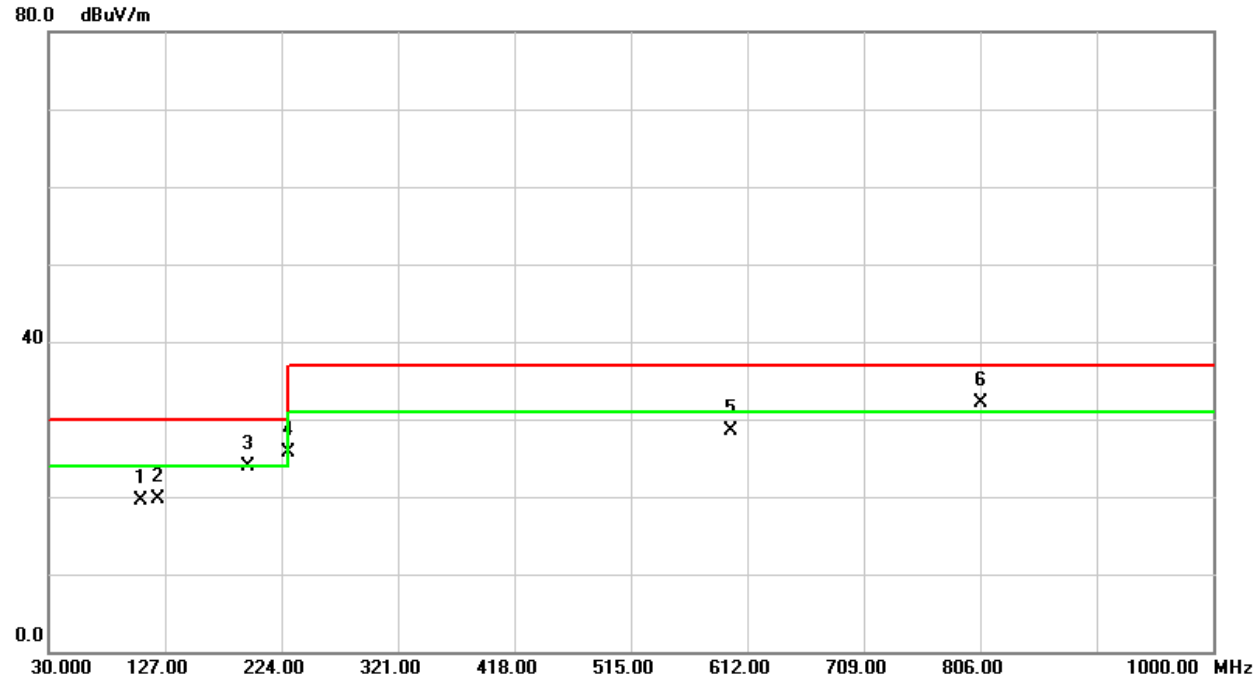
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	!	104.6900	43.48	-18.44	25.04	30.00	-4.96	QP	100	55	
2	*	224.9700	39.35	-13.52	25.83	30.00	-4.17	QP	200	28	
3		527.6100	30.78	-4.79	25.99	37.00	-11.01	QP	200	333	
4		586.7800	31.08	-3.99	27.09	37.00	-9.91	QP	100	290	
5		732.2800	29.51	-0.89	28.62	37.00	-8.38	QP	100	253	
6	!	806.0000	31.98	-0.31	31.67	37.00	-5.33	QP	200	214	

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 1280*1024 75Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao		

Vertical

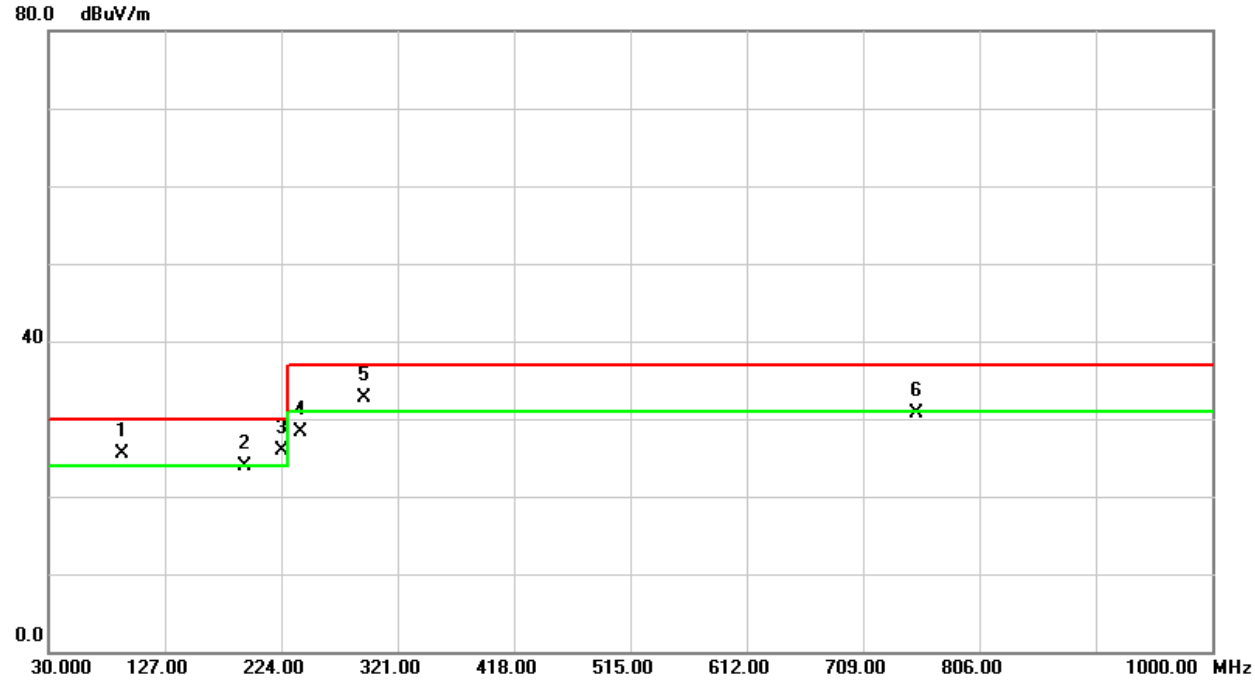


Horizontal

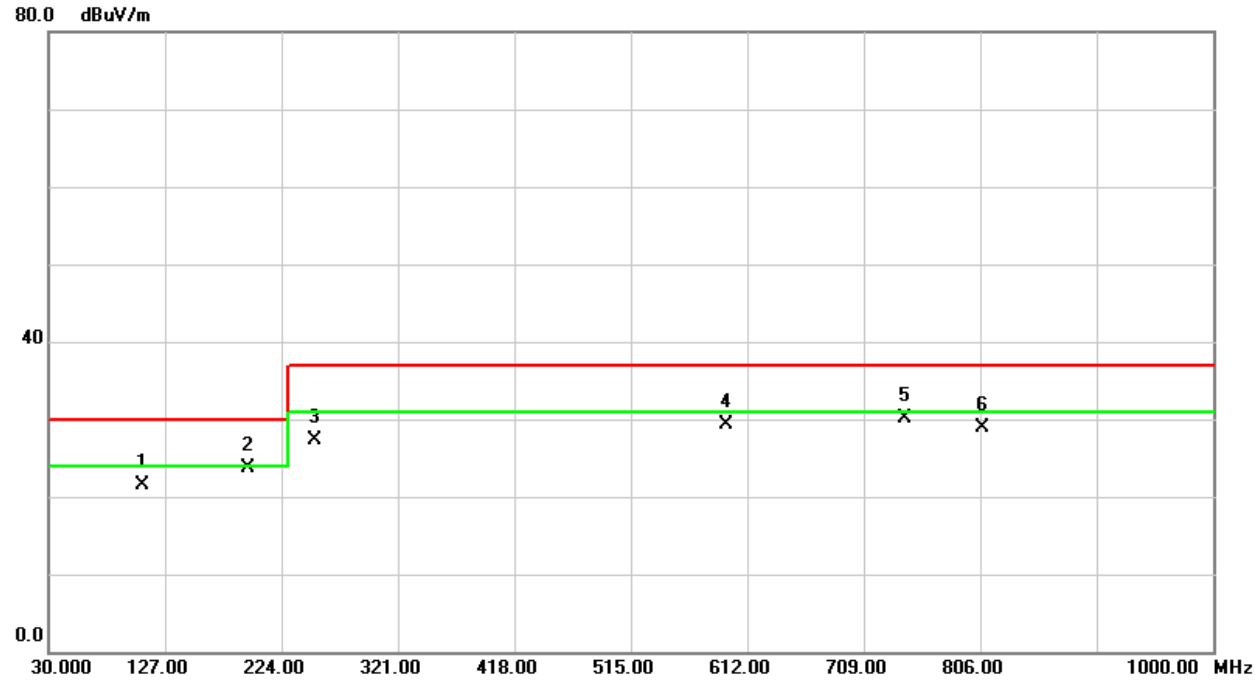


EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 800*600 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao		

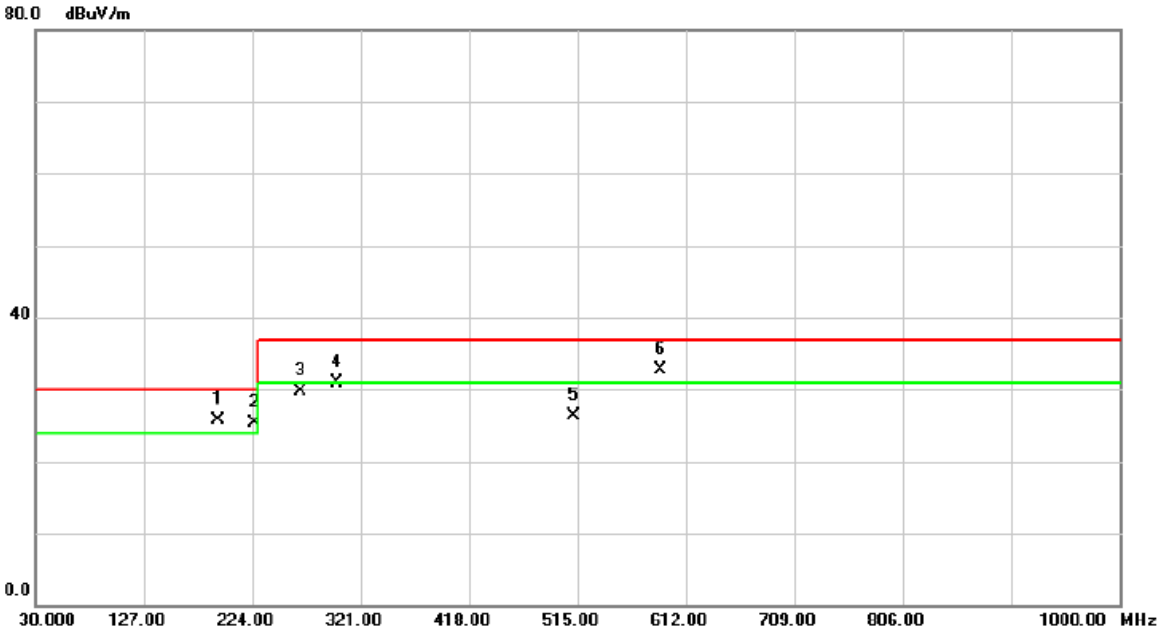
Vertical



Horizontal

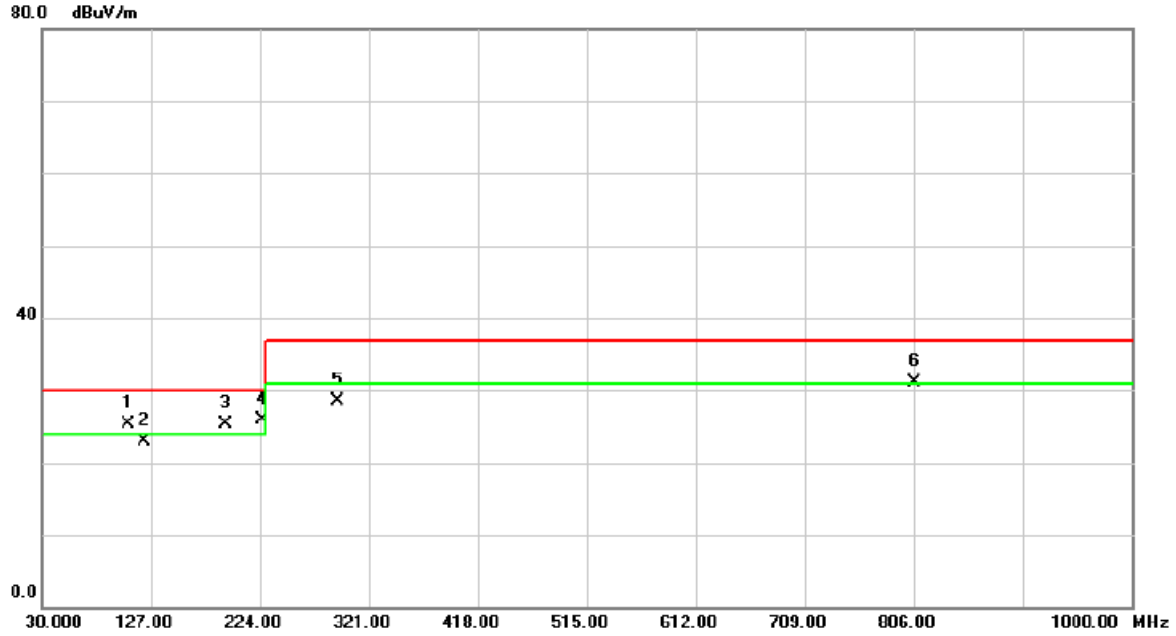


EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	PIP (DVI+CVBS 1) Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao	Polarization:	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	!	192.9600	40.98	-15.35	25.63	30.00	-4.37	QP	100	58	
2	!	225.9400	38.69	-13.47	25.22	30.00	-4.78	QP	100	309	
3		266.6800	41.56	-11.77	29.79	37.00	-7.21	QP	200	321	
4		299.6600	41.97	-11.16	30.81	37.00	-6.19	QP	100	360	
5		512.0900	31.72	-5.43	26.29	37.00	-10.71	QP	100	0	
6	*	588.7200	36.58	-3.91	32.67	37.00	-4.33	QP	200	64	

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	PIP (DVI+CVBS 1) Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao	Polarization:	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	!	106.6300	43.86	-18.53	25.33	30.00	-4.67	QP	200	12	
2		121.1800	42.33	-19.33	23.00	30.00	-7.00	QP	100	34	
3	!	192.9600	40.62	-15.35	25.27	30.00	-4.73	QP	100	102	
4	*	225.9400	39.45	-13.47	25.98	30.00	-4.02	QP	200	321	
5		292.8700	39.75	-11.28	28.47	37.00	-8.53	QP	200	330	
6	!	806.0000	31.42	-0.31	31.11	37.00	-5.89	QP	100	360	

4.3.9 TEST RESULTS-ABOVE 1000MHZ

Remark :

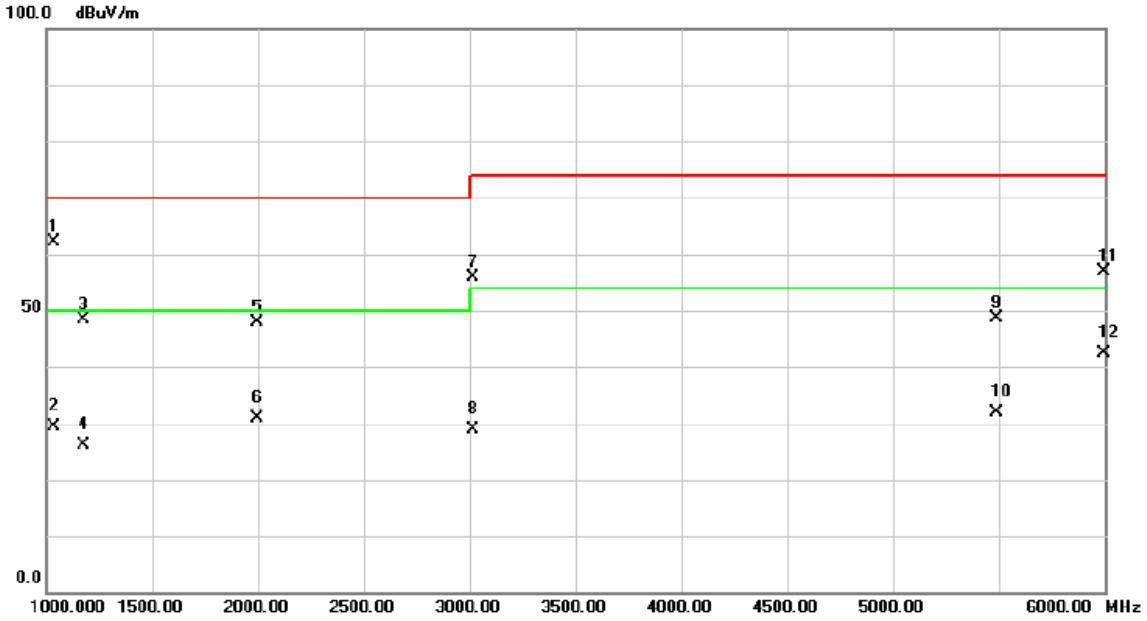
(1) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz.

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading Compliance with the QP Limits and then QP Mode measurement didn't perform.

(3) Measuring frequency range from 1GHz to 6GHz.

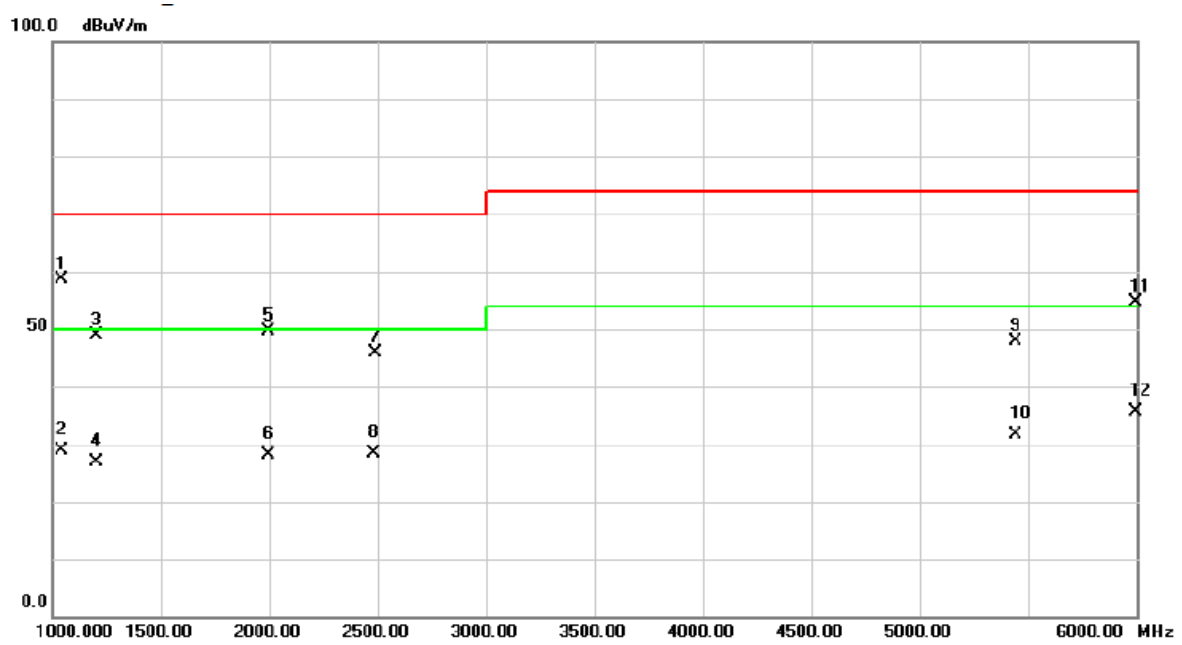
(4) For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also Complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	D-Sub 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao	Polarization:	Vertical



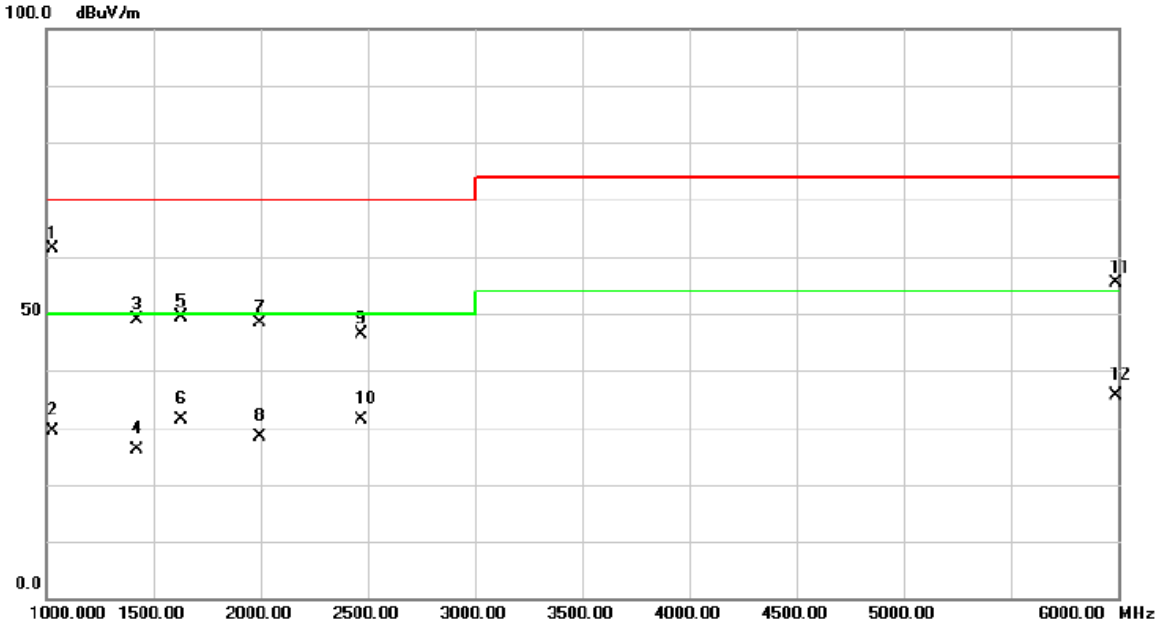
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1035.000	68.74	-6.50	62.24	70.00	-7.76	peak	100	241	
2		1035.000	35.79	-6.50	29.29	50.00	-20.71	AVG	100	241	
3		1177.500	54.23	-5.81	48.42	70.00	-21.58	peak	200	297	
4		1177.500	32.06	-5.81	26.25	50.00	-23.75	AVG	200	297	
5		1995.000	49.61	-1.78	47.83	70.00	-22.17	peak	200	208	
6		1995.000	32.71	-1.78	30.93	50.00	-19.07	AVG	200	208	
7		3015.000	53.91	1.99	55.90	74.00	-18.10	peak	100	163	
8		3015.000	26.87	1.99	28.86	54.00	-25.14	AVG	100	163	
9		5490.000	39.88	8.79	48.67	74.00	-25.33	peak	100	163	
10		5490.000	23.04	8.79	31.83	54.00	-22.17	AVG	100	163	
11		5997.500	45.68	11.12	56.80	74.00	-17.20	peak	200	353	
12		5997.500	31.23	11.12	42.35	54.00	-11.65	AVG	200	353	

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	D-Sub 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao	Polarization:	Horizontal



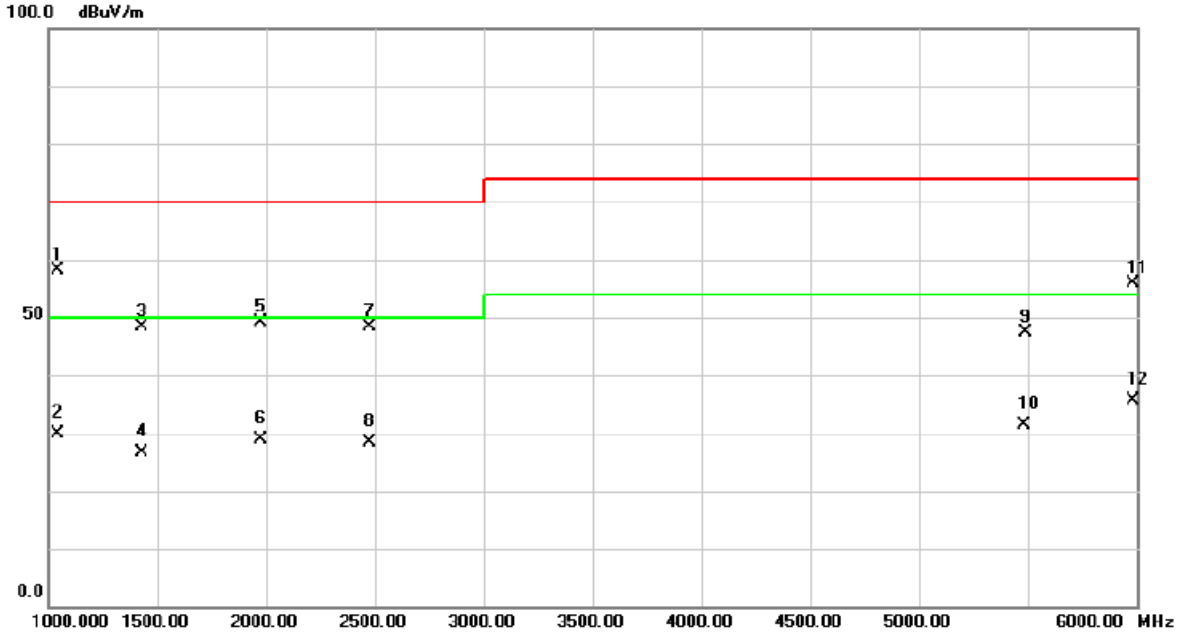
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1040.000	65.08	-6.47	58.61	70.00	-11.39	peak	100	37	
2		1040.000	35.47	-6.47	29.00	50.00	-21.00	AVG	100	37	
3		1205.000	54.60	-5.68	48.92	70.00	-21.08	peak	200	32	
4		1205.000	32.48	-5.68	26.80	50.00	-23.20	AVG	200	32	
5		1995.000	51.31	-1.78	49.53	70.00	-20.47	peak	200	324	
6		1995.000	29.91	-1.78	28.13	50.00	-21.87	AVG	200	324	
7		2487.500	45.67	0.20	45.87	70.00	-24.13	peak	100	340	
8		2487.500	28.25	0.20	28.45	50.00	-21.55	AVG	100	340	
9		5445.000	39.15	8.73	47.88	74.00	-26.12	peak	100	3	
10		5445.000	22.93	8.73	31.66	54.00	-22.34	AVG	100	3	
11		5995.000	43.63	11.11	54.74	74.00	-19.26	peak	200	32	
12		5995.000	24.64	11.11	35.75	54.00	-18.25	AVG	200	32	

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao	Polarization:	Vertical



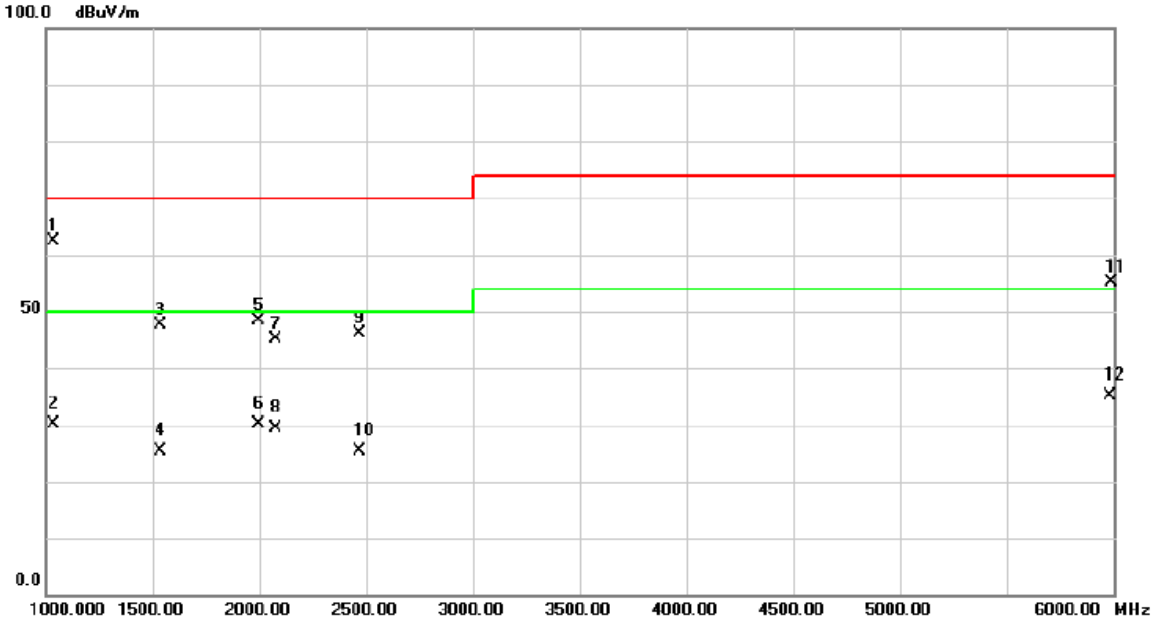
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1032.500	67.89	-6.51	61.38	70.00	-8.62	peak	100	239	
2		1032.500	35.96	-6.51	29.45	50.00	-20.55	AVG	100	239	
3		1420.000	53.60	-4.65	48.95	70.00	-21.05	peak	100	228	
4		1420.000	30.78	-4.65	26.13	50.00	-23.87	AVG	100	228	
5		1632.500	52.98	-3.60	49.38	70.00	-20.62	peak	100	239	
6		1632.500	35.05	-3.60	31.45	50.00	-18.55	AVG	100	239	
7		1997.500	50.14	-1.76	48.38	70.00	-21.62	peak	100	133	
8		1997.500	30.23	-1.76	28.47	50.00	-21.53	AVG	100	133	
9		2470.000	46.27	0.13	46.40	70.00	-23.60	peak	100	0	
10		2470.000	31.13	0.13	31.26	50.00	-18.74	AVG	100	0	
11		5992.500	44.18	11.09	55.27	74.00	-18.73	peak	200	70	
12		5992.500	24.49	11.09	35.58	54.00	-18.42	AVG	200	70	

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao	Polarization:	Horizontal



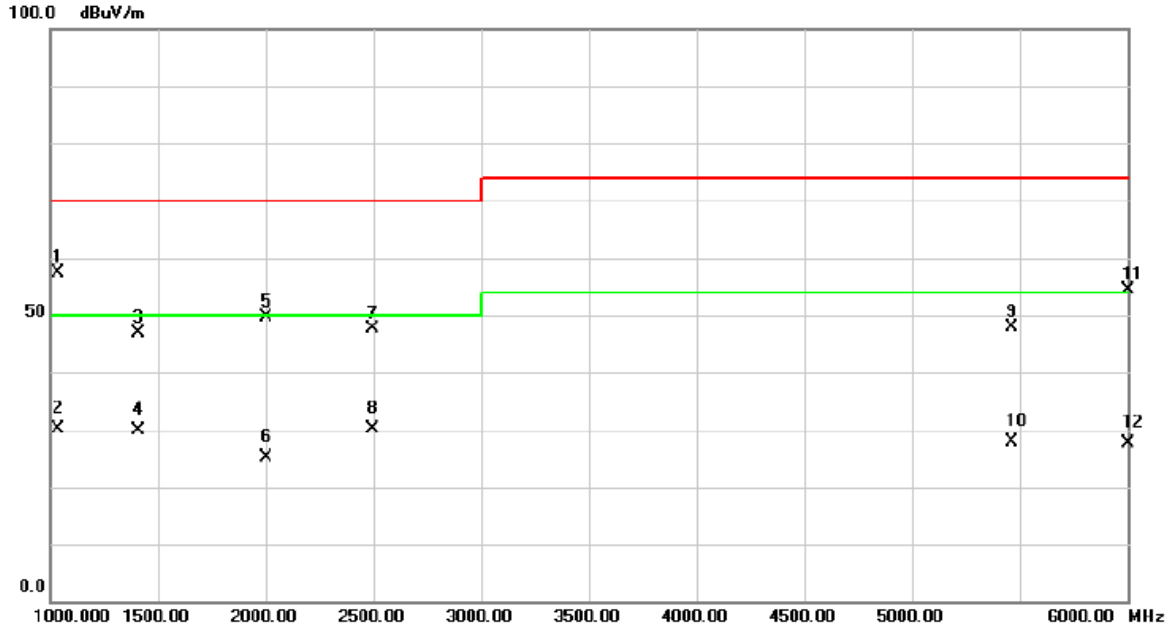
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1045.000	64.47	-6.45	58.02	70.00	-11.98	peak	100	35	
2		1045.000	36.29	-6.45	29.84	50.00	-20.16	AVG	100	35	
3		1432.500	53.09	-4.59	48.50	70.00	-21.50	peak	110	360	
4		1432.500	31.13	-4.59	26.54	50.00	-23.46	AVG	110	360	
5		1975.000	50.94	-1.88	49.06	70.00	-20.94	peak	200	324	
6		1975.000	30.75	-1.88	28.87	50.00	-21.13	AVG	200	324	
7		2477.500	48.16	0.16	48.32	70.00	-21.68	peak	100	340	
8		2477.500	28.29	0.16	28.45	50.00	-21.55	AVG	100	340	
9		5487.500	38.65	8.79	47.44	74.00	-26.56	peak	100	69	
10		5487.500	22.57	8.79	31.36	54.00	-22.64	AVG	100	69	
11		5982.500	44.83	11.06	55.89	74.00	-18.11	peak	200	43	
12		5982.500	24.52	11.06	35.58	54.00	-18.42	AVG	200	43	

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	PIP (DVI+CVBS 1) Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao	Polarization:	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1035.000	68.84	-6.50	62.34	70.00	-7.66	peak	100	234	
2		1035.000	36.75	-6.50	30.25	50.00	-19.75	AVG	100	234	
3		1537.500	51.71	-4.07	47.64	70.00	-22.36	peak	200	306	
4		1537.500	29.43	-4.07	25.36	50.00	-24.64	AVG	200	306	
5		1995.000	50.06	-1.78	48.28	70.00	-21.72	peak	100	189	
6		1995.000	31.90	-1.78	30.12	50.00	-19.88	AVG	100	189	
7		2077.500	46.55	-1.44	45.11	70.00	-24.89	peak	100	234	
8		2077.500	30.80	-1.44	29.36	50.00	-20.64	AVG	100	234	
9		2470.000	45.98	0.13	46.11	70.00	-23.89	peak	100	360	
10		2470.000	25.30	0.13	25.43	50.00	-24.57	AVG	100	360	
11		5987.500	44.18	11.07	55.25	74.00	-18.75	peak	200	90	
12		5987.500	24.14	11.07	35.21	54.00	-18.79	AVG	200	90	

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	50 %
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	PIP (DVI+CVBS 1) Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao	Polarization:	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1037.500	63.88	-6.49	57.39	70.00	-12.61	peak	100	42	
2		1037.500	36.61	-6.49	30.12	50.00	-19.88	AVG	100	42	
3		1412.500	51.68	-4.68	47.00	70.00	-23.00	peak	100	340	
4		1412.500	34.55	-4.68	29.87	50.00	-20.13	AVG	100	340	
5		2000.000	51.26	-1.75	49.51	70.00	-20.49	peak	100	53	
6		2000.000	26.87	-1.75	25.12	50.00	-24.88	AVG	100	53	
7		2495.000	47.30	0.23	47.53	70.00	-22.47	peak	100	329	
8		2495.000	29.88	0.23	30.11	50.00	-19.89	AVG	100	329	
9		5460.000	39.10	8.76	47.86	74.00	-26.14	peak	100	9	
10		5460.000	19.13	8.76	27.89	54.00	-26.11	AVG	100	9	
11		6000.000	43.15	11.13	54.28	74.00	-19.72	peak	100	20	
12		6000.000	16.42	11.13	27.55	54.00	-26.45	AVG	100	20	

4.3 HARMONICS CURRENT MEASUREMENT

4.3.1 LIMITS OF HARMONICS CURRENT MEASUREMENT

IEC 555-2					
Table - I			Table - II		
Equipment Category	Harmonic Order n	Max. Permissible Harmonic Current (in Ampers)	Equipment Category	Harmonic Order n	Max. Permissible Harmonic Current (in Ampers)
Non Portable Tools or TV Receivers	Odd Harmonics		TV Receivers	Odd Harmonics	
	3	2.30		3	0.80
	5	1.14		5	0.60
	7	0.77		7	0.45
	9	0.40		9	0.30
	11	0.33		11	0.17
	13	0.21		13	0.12
	15≤n≤39	0.15 · 15/n		15≤n≤39	0.10 · 15/n
	Even Harmonics			Even Harmonics	
	2	1.08		2	0.30
	4	0.43		4	0.15
	6	0.30			
	8≤n≤40	0.23 · 8/n		DC	0.05

EN 61000-3-2/IEC 61000-3-2					
Equipment Category	Max. Permissible Harmonic Current (in Ampers)	Equipment Category	Harmonic Order n	Max. Permissible Harmonic Current (in A)	(mA/w)
Class A	Same as Limits Specified in 4-2.1, Table - I, but only odd harmonics required	Class D	3	2.30	3.4
			5	1.14	1.9
			7	0.77	1.0
			9	0.40	0.5
			11	0.33	0.35
			13≤n≤39	see Table I	3.85/n
			only odd harmonics required		

4.3.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Harmonic & Flicker	California	PACS-1	72344	Aug. 24, 2014
2	Power Source	California	3001iX	56309	Aug. 24, 2014

Remark: ” N/A” denotes No Model Name / Serial No. and No Calibration specified.

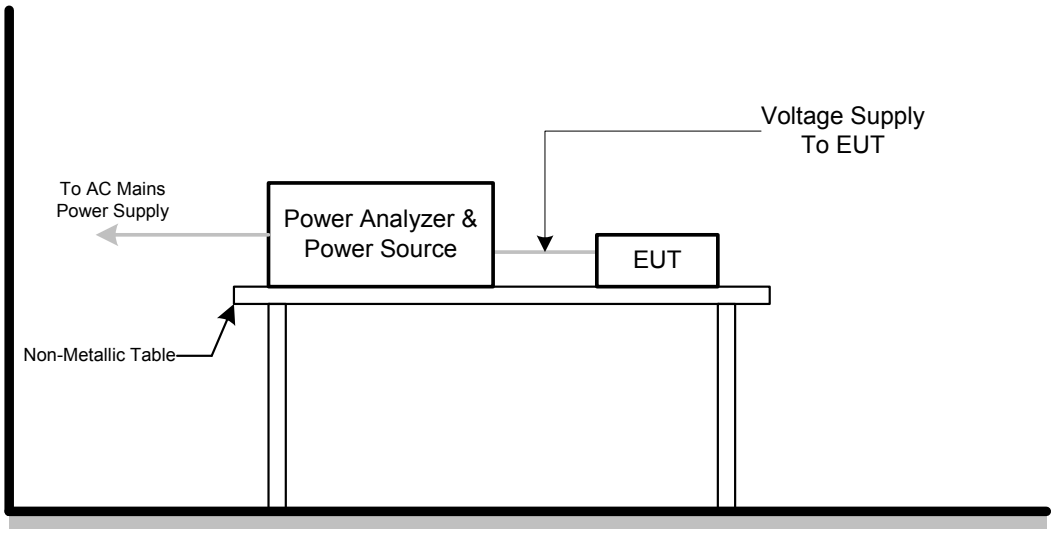
4.3.3 TEST PROCEDURE

a. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions.
b. The classification of EUT is according to section 5 of EN 61000-3-2:2006 +A1:2009+ A2:2009. The EUT is classified as follows:
   Class A: Balanced three-phase equipment, Household appliances excluding equipment as Class D, Tools excluding portable tools, Dimmers for incandescent lamps, audio equipment, equipment not specified in one of the three other classes.
   Class B: Portable tools. Portable tools.; Arc welding equipment which is not professional equipment.
   Class C: Lighting equipment.
   Class D: Equipment having a specified power less than or equal to600 W of the following types: Personal computers and personal computer monitors and television receivers.
c. The correspondent test program of test instrument to measure the current harmonics emanated from EUT is chosen. The measure time shall be not less than the time necessary for the EUT to be exercised.
d. For the actual test configuration, please refer to the related item –EUT Test Photos.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



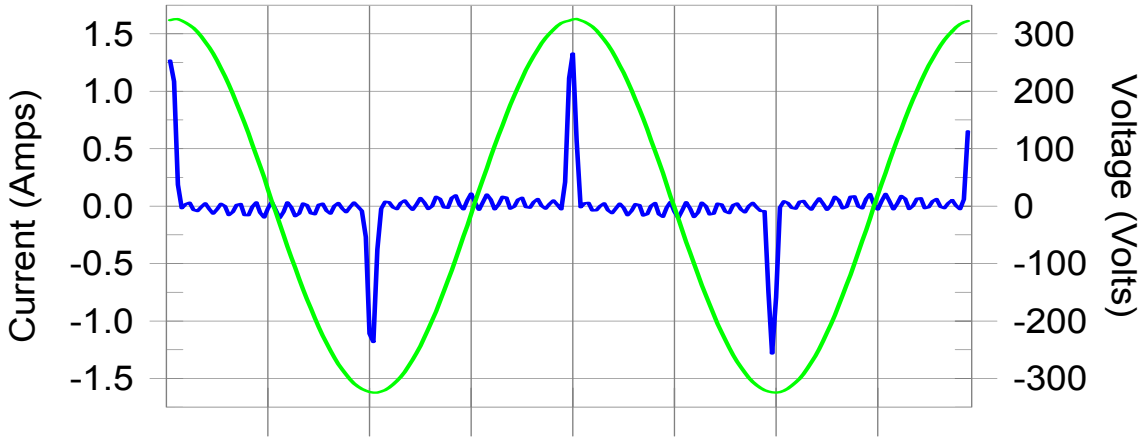
4.3.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

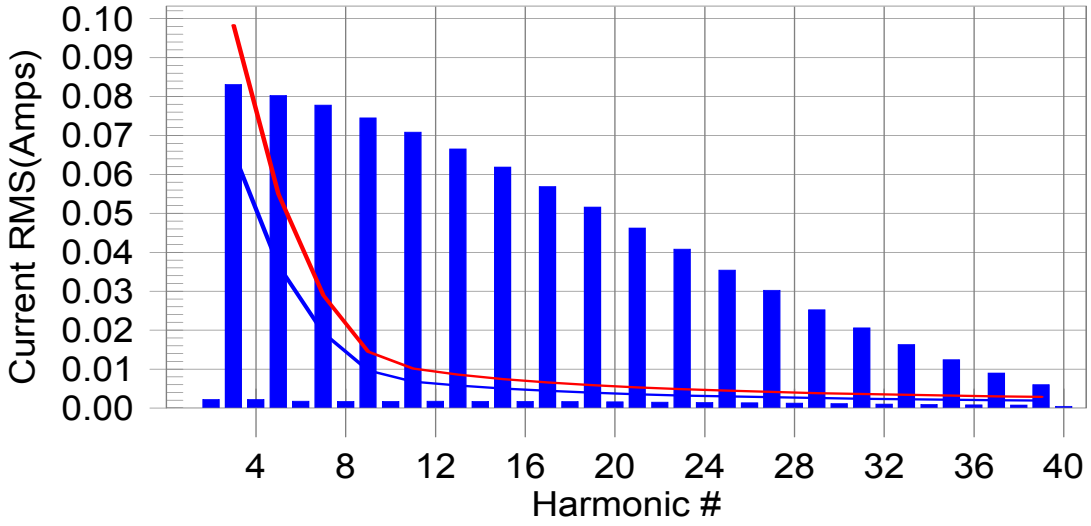
4.3.7 TEST RESULTS

Harmonics – Class-D per Ed. 3.2(Run time)			
EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	60 %
Pressure：	1007 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao		

Current & voltage waveforms



Harmonics and Class D limit line **European Limits**



Test result: Pass Worst harmonic was #0 with 0.00 of the limit.

Current Test Result Summary (Run time)			
EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	60 %
Pressure：	1007 hPa	Test Power ：	AC 230V/50Hz
Highest parameter values during test:			
V_RMS (Volts):	229.94	Frequency(Hz):	50.00
I_Peak (Amps):	1.391	I_RMS (Amps):	0.246
I_Fund (Amps):	0.088	Crest Factor:	5.688
Power (Watts):	19.3	Power Factor:	0.344
Test Mode ：	DVI 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao		

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.002						
3	0.082	0.066	0.0	0.083	0.098	0.00	N/L
4	0.002						
5	0.080	0.037	0.0	0.080	0.055	0.00	N/L
6	0.002						
7	0.078	0.019	0.0	0.078	0.029	0.00	N/L
8	0.002						
9	0.074	0.010	0.0	0.075	0.014	0.00	N/L
10	0.002						
11	0.071	0.007	0.0	0.071	0.010	0.00	N/L
12	0.002						
13	0.066	0.006	0.0	0.067	0.009	0.00	N/L
14	0.002						
15	0.062	0.005	0.0	0.062	0.007	0.00	N/L
16	0.002						
17	0.057	0.004	0.0	0.057	0.007	0.00	N/L
18	0.002						
19	0.051	0.004	0.0	0.052	0.006	0.00	N/L
20	0.002						
21	0.046	0.004	0.0	0.046	0.005	0.00	N/L
22	0.002						
23	0.041	0.003	0.0	0.041	0.005	0.00	N/L
24	0.001						
25	0.035	0.003	0.0	0.035	0.004	0.00	N/L
26	0.001						
27	0.030	0.003	0.0	0.030	0.004	0.00	N/L
28	0.001						
29	0.025	0.003	0.0	0.025	0.004	0.00	N/L
30	0.001						
31	0.020	0.002	0.0	0.021	0.004	0.00	N/L
32	0.001						
33	0.016	0.002	0.0	0.016	0.003	0.00	N/L
34	0.001						
35	0.012	0.002	0.0	0.012	0.003	0.00	N/L
36	0.001						
37	0.009	0.002	0.0	0.009	0.003	0.00	N/L
38	0.001						
39	0.006	0.002	0.0	0.006	0.003	0.00	N/L
40	0.000						

Note: The EUT power level is below 75.0 Watts and therefore has no defined limits

Voltage Source Verification Data (Run time)			
EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	60 %
Pressure：	1007 hPa	Test Power ：	AC 230V/50Hz
Highest parameter values during test:			
V_RMS (Volts):	229.94	Frequency(Hz):	50.00
I_Peak (Amps):	1.391	I_RMS (Amps):	0.246
I_Fund (Amps):	0.088	Crest Factor:	5.688
Power (Watts):	19.3	Power Factor:	0.344
Test Mode ：	DVI 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao		

Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.129	0.460	27.95	OK
3	0.534	2.069	25.79	OK
4	0.060	0.460	13.12	OK
5	0.039	0.920	4.27	OK
6	0.027	0.460	5.95	OK
7	0.060	0.690	8.72	OK
8	0.017	0.460	3.75	OK
9	0.016	0.460	3.38	OK
10	0.023	0.460	5.00	OK
11	0.054	0.230	23.34	OK
12	0.016	0.230	6.75	OK
13	0.049	0.230	21.49	OK
14	0.007	0.230	3.23	OK
15	0.048	0.230	20.98	OK
16	0.012	0.230	5.17	OK
17	0.043	0.230	18.78	OK
18	0.013	0.230	5.72	OK
19	0.049	0.230	21.16	OK
20	0.016	0.230	7.05	OK
21	0.046	0.230	19.83	OK
22	0.014	0.230	6.06	OK
23	0.046	0.230	19.85	OK
24	0.007	0.230	3.13	OK
25	0.040	0.230	17.59	OK
26	0.011	0.230	4.91	OK
27	0.039	0.230	16.79	OK
28	0.008	0.230	3.37	OK
29	0.030	0.230	13.03	OK
30	0.007	0.230	3.04	OK
31	0.030	0.230	12.91	OK
32	0.006	0.230	2.47	OK
33	0.025	0.230	10.66	OK
34	0.003	0.230	1.51	OK
35	0.021	0.230	9.22	OK
36	0.003	0.230	1.49	OK
37	0.014	0.230	6.15	OK
38	0.005	0.230	2.08	OK
39	0.012	0.230	5.43	OK
40	0.007	0.230	3.05	OK

4.4 VOLTAGE FLUCTUATION AND FLICKERS MEASUREMENT

4.4.1 LIMITS OF VOLTAGE FLUCTUATION AND FLICKERS MEASUREMENT

Tests	Limits		Descriptions
	IEC555-3	IEC/EN 61000-3-3	
Pst	≤ 1.0, Tp= 10 min.	≤ 1.0, Tp= 10 min.	Short Term Flicker Indicator
Plt	N/A	≤ 0.65, Tp=2 hr.	Long Term Flicker Indicator
dc	≤ 3%	≤ 3.3%	Relative Steady-State V-Chang
dmax	≤ 4%	≤ 4%	Maximum Relative V-change
d (t)	N/A	≤ 3.3% for > 500 ms	Relative V-change characteristic

4.4.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Harmonic & Flicker	California	PACS-1	72344	Aug. 24, 2014
2	Power Source	California	3001iX	56309	Aug. 24, 2014

Remark: ” N/A” denotes No Model Name / Serial No. and No Calibration specified.

4.4.3 TEST PROCEDURE

a. Harmonic Current Test:
Test was performed according to the procedures specified in Clause 5.0 of IEC555-2 and/or Sub-clause 6.2 of IEC/EN 61000-3-2 depend on which standard adopted for compliance measurement.

b. Fluctuation and Flickers Test:
Tests was performed according to the Test Conditions/Assessment of Voltage Fluctuations specified in Clause 5.0/6.0 of IEC555-3 and/or Clause 6.0/4.0 of IEC/EN 61000-3-3 depend on which standard adopted for compliance measurement.

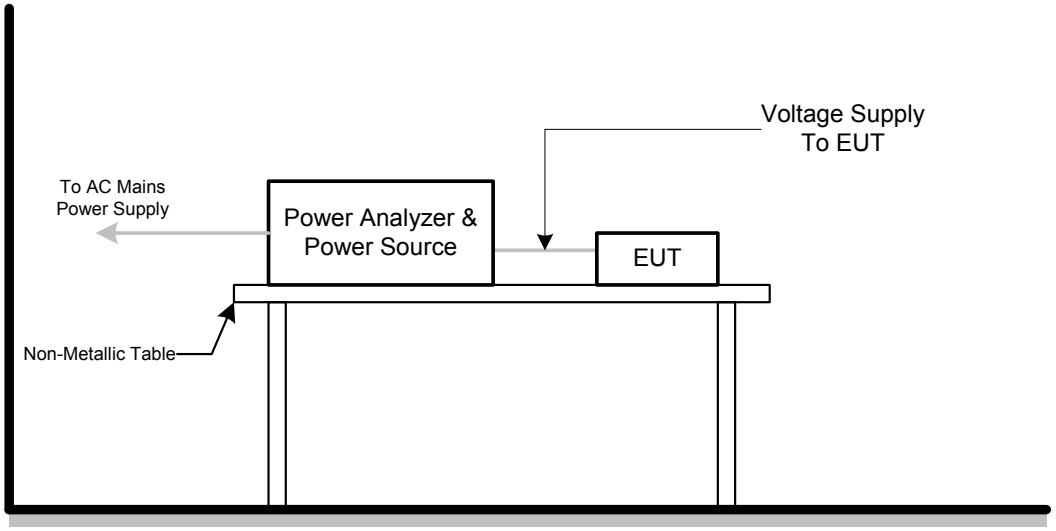
c. All types of harmonic current and/or voltage fluctuation in this report are assessed by direct measurement using flicker-meter.

d. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TESTSETUP



4.4.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

4.4.7 TEST RESULTS

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	23 ℃	Relative Humidity：	60 %
Pressure：	1007 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao		

Pst_i and limit line **European Limits**

Time is too short for Plt plot

Parameter values recorded during the test:

Vrms at the end of test (Volt): 229.90				
Highest dt (%):	0.00	Test limit (%):	3.30	PASS
Time(mS) > dt:	0.0	Test limit (mS):	500.0	PASS
Highest dc (%):	0.00	Test limit (%):	3.30	PASS
Highest dmax (%):	0.00	Test limit (%):	4.00	PASS
Highest Pst (10 min. period):	0.064	Test limit:	1.000	PASS
Highest Plt (2 hr. period):	0.028	Test limit:	0.650	PASS

5. EMC IMMUNITY TEST

5.1 STANDARD COMPLIANCE/SERVRITY LEVEL/CRITERIA

Tests Standard No.	TEST SPECIFICATION Level	Test Mode Test Ports	Perform. Criteria	Remark
1. ESD IEC/EN 61000-4-2	8kV air discharge 6kV contact discharge	Direct Mode	**Remark(1)**	
	6kV HCP discharge 6kV VCP discharge	Indirect Mode		
2. RS IEC/EN 61000-4-3	80 MHz to 1000 MHz 3 V/m(rms), 1 KHz, 80%, AM modulated	Enclosure		
	1000 MHz to 2500 MHz 3 V/m(rms), 1 KHz, 80%, AM modulated			
3. EFT/Burst IEC/EN 61000-4-4	2.0kV(peak) 5/50ns Tr/Th 5KHz Repetition Freq.	Power Supply Port		
	0.5 or 1kV(peak) 5/50ns Tr/Th 5KHz Repetition Freq.	CTL/Signal Data Line Port		N/A
4. Surges IEC/EN 61000-4-5	1 kV(5P/5N) 1.2/50(8/20) Tr/Th us	L-N		
	2 kV(5P/5N) 1.2/50(8/20) Tr/Th us	L-PE N-PE		
5 Injected Current IEC/EN 61000-4-6	0.15 MHz to 80 MHz 3 V(rms), 1KHz 80%, AM Modulated 150Ω source impedance	CTL/Signal Port		N/A
	0.15 MHz to 80 MHz 3 V (rms), 1KHz 80%, AM Modulated 150Ω source impedance	AC Power Port		
	0.15 MHz to 80 MHz 3 V (rms), 1KHz 80%, AM Modulated 150Ω source impedance	DC Power Port		N/A
6. Power Frequency Magnetic Field IEC/EN 61000-4-8	50/60 Hz, 3A/m	Enclosure		
7. Volt. Interruptions Volt. Dips IEC/EN 61000-4-11	Voltage dip ＞95% Voltage dip 30% Voltage dip 60% Interruption ＞95%	AC Power Port		

* Remark:

N/A : denotes test is not applicable in this Test Report

(1) : The performance criteria for EN60601-1-2 are listed in the item 6.2.1.10).

5.2 DESCRIPTION OF TEST MODE

Final Test Mode			Description		
Panel	Input Port	Resolution& Frequency	Test Item	Test Result	Test Data Page
CHIMEI INNOLUX	DVI	1920*1080 60Hz	ESD	PASS	#62
			RS	PASS	#70
			EFT	PASS	#73
			SURGE	PASS	#76
			CS	PASS	#79
			PMF	PASS	#82
			DIP	PASS	#85

5.3 GENERAL PERFORMANCE CRITERIA

According to **EN60601-1-2** standard, the general performance criteria as following:

item	Compliance criteria
6.2.1.10	Under the test conditions specified in 6.2, the ME EQUIPMENT or ME SYSTEM shall be able to provide the BASIC SAFETY and ESSENTIAL PERFORMANCE. The following DEGRADATIONS, if associated with BASIC SAFETY and ESSENTIAL PERFORMANCE, shall not be allowed: 1. component failures; 2. changes in programmable parameters; 3. reset to factory defaults (MANUFACTURER'S presets); 4. change of operating mode; 5. false alarms; 6. cessation or interruption of any intended operation, even if accompanied by an alarm; 7. initiation of any unintended operation, including unintended or uncontrolled motion, even if accompanied by an alarm; 8. error of a displayed numerical value sufficiently large to affect diagnosis or treatment; 9. noise on a waveform in which the noise would interfere with diagnosis, treatment or monitoring; 10. artefact or distortion in an image in which the artefact would interfere with diagnosis, treatment or monitoring; 11. failure of automatic diagnosis or treatment ME EQUIPMENT and ME SYSTEMS to diagnose or treat, even if accompanied by an alarm. For ME EQUIPMENT and ME SYSTEMS with multiple FUNCTIONS, the criteria apply to each FUNCTION, parameter and channel. The ME EQUIPMENT or ME SYSTEM may exhibit DEGRADATION of performance (e.g. deviation from MANUFACTURER'S specifications) that does not affect BASIC SAFETY or ESSENTIAL PERFORMANCE.

5.4 GENERAL PERFORMANCE CRITERIA TEST SETUP

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

5.5 ESD TESTING

5.5.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-2
Discharge Impedance:	330 ohm / 150 pF
Required Performance	Compliance is checked by the following tests and determined during and after the tests in accordance with 6.2.1.10).
Discharge Voltage:	Air Discharge：2kV/4kV/8kV (Direct) Contact Discharge：2kV/4kV/6kV (Direct/Indirect)
Polarity:	Positive & Negative
Number of Discharge:	Air Discharge: min. 20 times at each test point Contact Discharge: min. 200 times in total
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum

5.5.2 MEASUREMENT INSTRUMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	ESD Generator	TESEQ AG	NSG 437	450	Sep. 02, 2014

Remark: ” N/A” denotes No Model Name / Serial No. and No Calibration specified.

5.5.3 TEST PROCEDURE

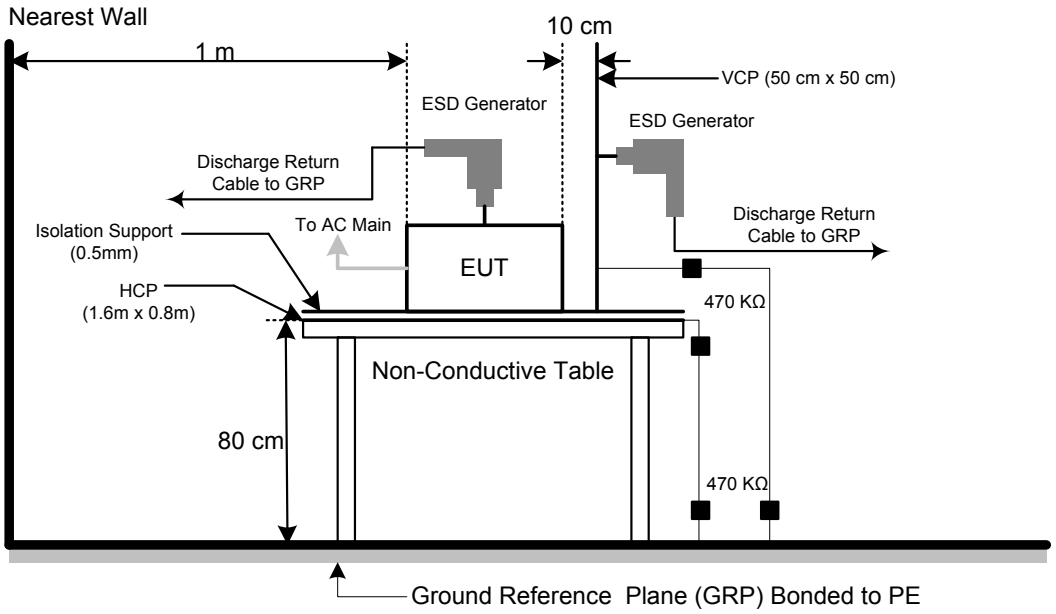
The test generator necessary to perform direct and indirect application of discharges to the EUT in the following manner:

a. Contact discharge was applied to conductive surfaces (Direct) and coupling planes (Indirect) of the EUT.
   During the test, it was performed with single discharges. For the single discharge time between successive single discharges was at least 1 second. The EUT shall be exposed to at least 200 discharges, 100 each at negative and positive polarity, at a minimum of four test points. One of the test points shall be subjected to at least 50 indirect discharges to the center of the front edge of the horizontal coupling plane. The remaining three test points shall each receive at least 50 direct contact discharges.
   If no direct contact test points are available, then at least 200 indirect discharges shall be applied in the indirect mode. Test shall be performed at a maximum repetition rate of one discharge per second.
   Vertical Coupling Plane (VCP):
   The coupling plane, of dimensions 0.5m x 0.5m, is placed parallel to, and positioned at a distance 0.1m from, the EUT, with the Discharge Electrode touching the coupling plane.
   The four faces of the EUT will be performed with electrostatic discharge.
   Horizontal Coupling Plane (HCP):
   The coupling plane is placed under to the EUT. The generator shall be positioned vertically at a distance of 0.1m from the EUT, with the Discharge Electrode touching the coupling plane.
   The four faces of the EUT will be performed with electrostatic discharge.
b. Air discharges at insulation surfaces of the EUT.
   It was at least ten single discharges with positive and negative at the same selected point.
c. For the actual test configuration, please refer to the related Item –EUT Test Photos.

5.5.4 DEVIATION FROM TEST STANDARD

No deviation

5.5.5 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table 0.8 meters high standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A Horizontal Coupling Plane (1.6m x 0.8m) was placed on the table and attached to the GRP by means of a cable with 940k total impedance. The equipment under test, was installed in a representative system as described in section 7 of IEC /EN 61000-4-2, and its cables were placed on the HCP and isolated by an insulating support of 0.5mm thickness. A distance of1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.

FLOOR-STANDING EQUIPMENT

The equipment under test was installed in a representative system as described in section 7 of IEC/EN 61000-4-2, and its cables were isolated from the Ground Reference Plane by an insulating support of0.1-meter thickness. The GRP consisted of a sheet of aluminum that is at least 0.25mm thick, and 2.5meters square connected to the protective grounding system and extended at least 0.5 meters from the EUT on all sides.

5.5.6 TEST RESULTS

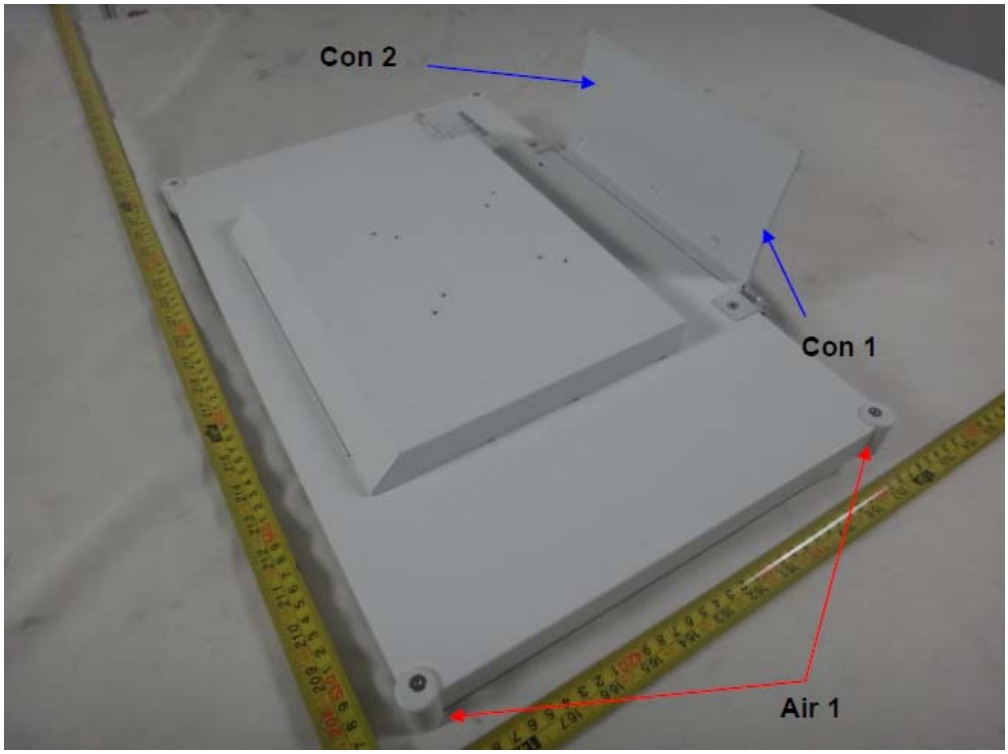
EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	25℃	Relative Humidity：	52%
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao		

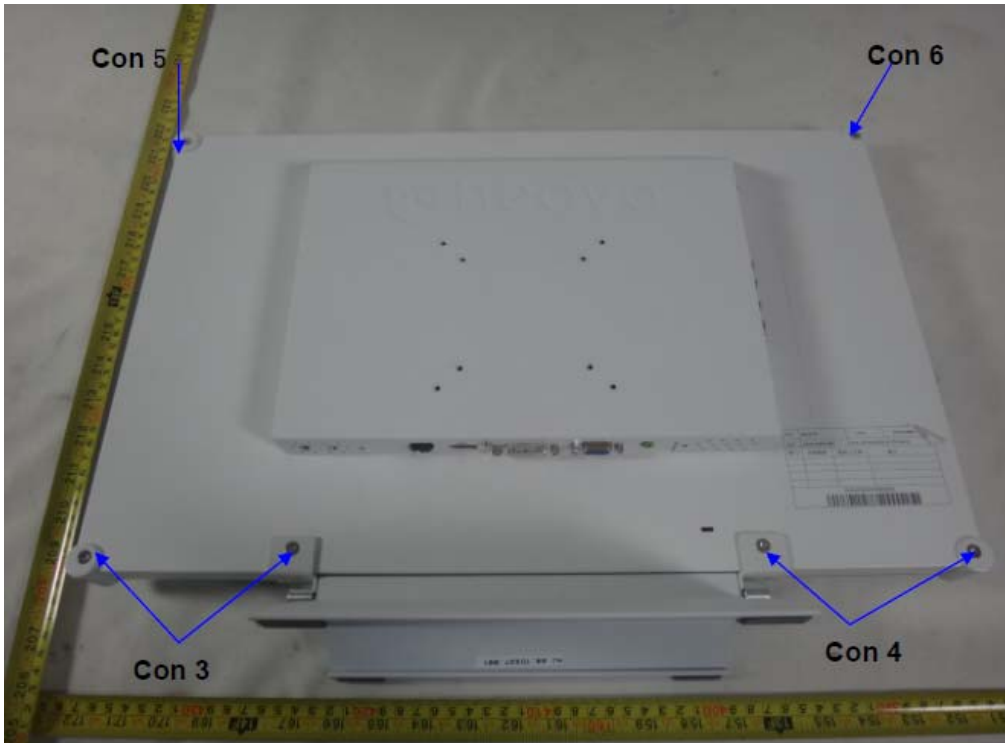
Mode	Air Discharge								Contact Discharge							
	2KV		4KV		8KV		15KV		2KV		4KV		6KV		8KV	
Location	P	N	P	N	P	N	P	N	P	N	P	N	P	N	P	N
1	OK	OK	OK	OK	OK	OK			OK	OK	OK	OK	OK	OK		
2	OK	OK	OK	OK	OK	OK			OK	OK	OK	OK	OK	OK		
3	OK	OK	OK	OK	OK	OK			OK	OK	OK1	OK1	OK1	OK1		
4	OK	OK	OK	OK	OK	OK			OK	OK	OK1	OK1	OK1	OK1		
5	OK	OK	OK	OK	OK	OK			OK	OK	OK	OK	OK	OK		
6	OK	OK	OK	OK	OK	OK			OK	OK	OK	OK	OK	OK		
7	OK	OK	OK	OK	OK	OK			OK	OK	OK	OK	OK	OK		
8	OK	OK	OK	OK	OK	OK			OK	OK	OK	OK	OK	OK		
9	OK	OK	OK	OK	OK	OK			OK	OK	OK	OK	OK	OK		
10	OK	OK	OK	OK	OK	OK			OK	OK	OK	OK	OK	OK		
11	OK	OK	OK	OK	OK	OK			OK	OK	OK1	OK1	OK1	OK1		
12									OK	OK	OK	OK	OK	OK		
13									OK	OK	OK	OK	OK	OK		
Result	**OK**								**OK**							
Judgment	**PASS**								**PASS**							

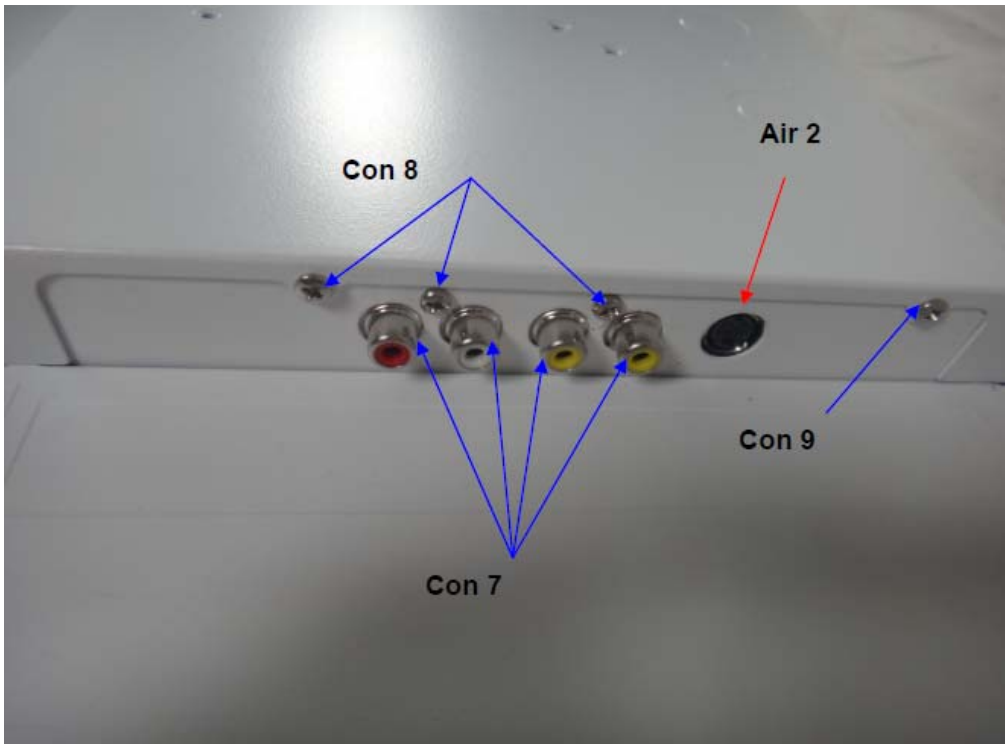
Mode	HCP Discharge								VCP Discharge							
	2KV		4KV		6KV		8KV		2KV		4KV		6KV		8KV	
Location	P	N	P	N	P	N	P	N	P	N	P	N	P	N	P	N
1	OK	OK	OK	OK	OK	OK			OK	OK	OK	OK	OK	OK		
2	OK	OK	OK	OK	OK	OK			OK	OK	OK	OK	OK	OK		
3	OK	OK	OK	OK	OK	OK			OK	OK	OK	OK	OK	OK		
4	OK	OK	OK	OK	OK	OK			OK	OK	OK	OK	OK	OK		
Result	**OK**								**OK**							
Judgment	**PASS**								**PASS**							

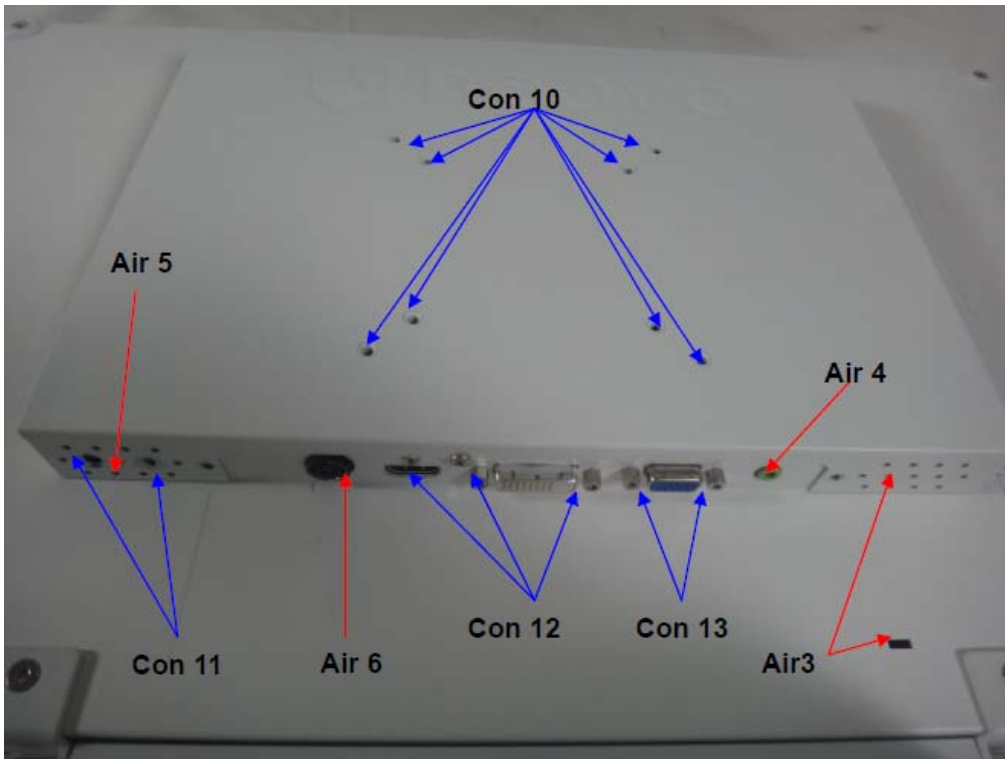
Note 1) P/N denotes the Positive/Negative polarity of the output voltage.
2) Test condition:
Direct / Indirect (HCP/VCP) discharges: Minimum 50 times (Positive/Negative) at each point. Air discharges: Minimum 10 times (Positive/Negative) at each point.
3) Test location(s) in which discharge (Air and contact discharge) to be applied illustrated by photos shown in next page(s)
4) The Indirect (HCP/VCP) discharges description of test point as following:
1.left side 2.right side 3.front side 4.rear side
5) N/A - denotes test is not applicable in this test report
6) OK1: Screen flickering interference.

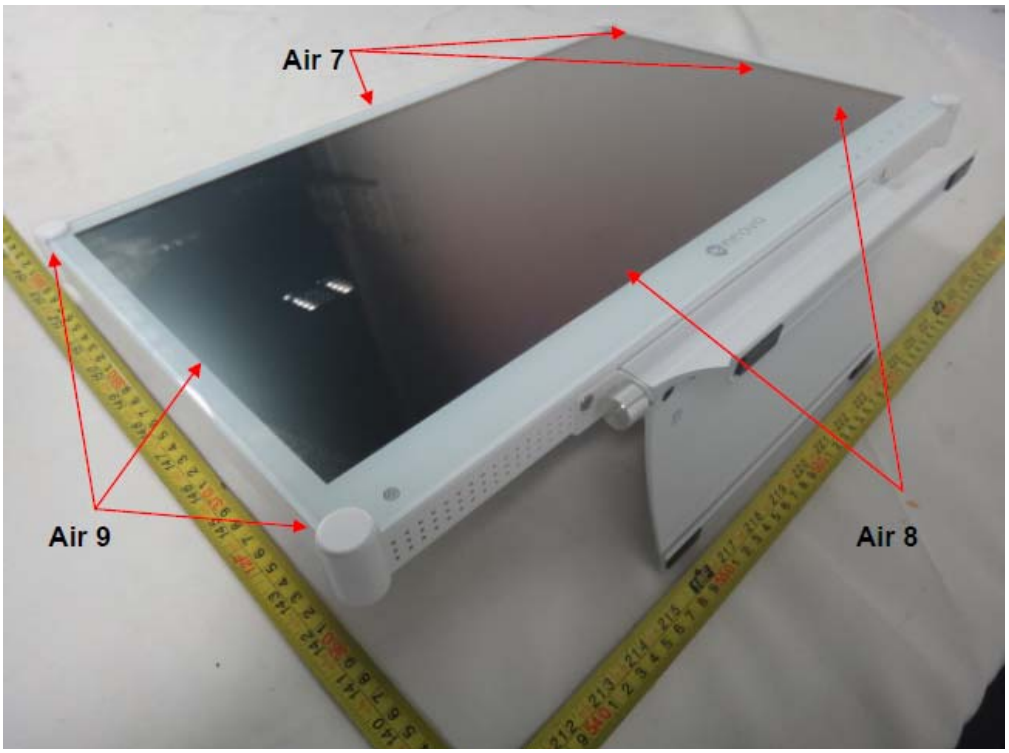
5.5.7 PHOTO(S) SHOWN THE LOCATION(S) OF ESD EVALUATED






Con 8
Air 2
Con 9
Con 7


Con 10
Air 5
Air 4
Con 11
Air 6
Con 12
Con 13
Air3


Air 7
Air 9
Air 8

Air 10

Air 11

5.6 RS TESTING

5.6.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-3
Required Performance	Compliance is checked by the following tests and determined during and after the tests in accordance with 6.2.1.10).
Frequency Range:	80 MHz - 1000 MHz & 1000MHz - 2500MHz
Field Strength:	3 V/m
Modulation:	1kHz Sine Wave, 80%, AM Modulation & Duty cycle 50% Repetition frequency:200Hz
Frequency Step:	1% of fundamental
Polarity of Antenna:	Horizontal and Vertical
Test Distance:	3 m
Antenna Height:	1.5 m
Dwell Time:	at least 3 seconds

5.6.2 MEASUREMENT INSTRUMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Digital Signal Generator	HP	ESG-D3000A	US36260188	Apr. 25, 2014
2	Antenna	ETS	3142C	00047662	Apr. 25, 2014
3	Amplifier	AR	250W1000AM1	326727	Apr. 25, 2014
4	Horn Antenna	ARA	DRG-118A	16554	Apr. 25, 2014
5	Amplifier	AR	50S1G4A	326720	Apr. 25, 2014

Remark: ” N/A” denotes No Model Name / Serial No. and No Calibration specified.

5.6.3 TEST PROCEDURE

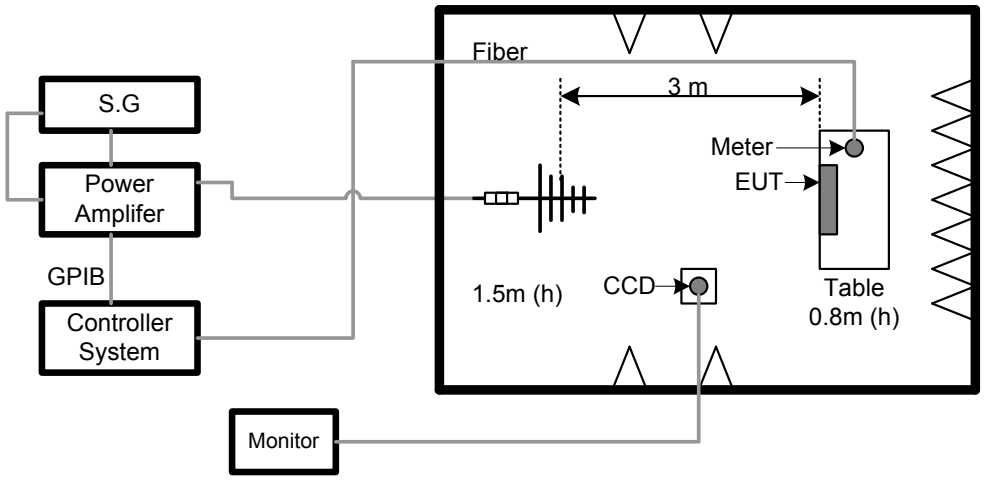
The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber.
The testing distance from antenna to the EUT was 3 meters.
The other condition as following manner:

a. The field strength level was 3V/m.
b. The frequency range is swept from 80 MHz to 1000 MHz & 1000MHz - 2500MHz, with the signal 80% amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5x 10-3 decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
c. Sweep Frequency 900 MHz, with the Duty Cycle:1/8 and Modulation: Pulse 217 Hz(if applicable)
d. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
e. The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

5.6.4 DEVIATION FROM TEST STANDARD

No deviation

5.6.5 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive table 0.8 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive wood support 0.1 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

5.6.6 TEST RESULTS

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	25℃	Relative Humidity：	50%
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao		

Frequency Range (MHz)	RF Field Position	R.F. Field Strength	Azimuth	Results	Judgment
80 - 1000	H / V	3 V/m (rms) AM Modulated 1000Hz, 80%	0	**OK**	**PASS**
			90		
			180		
			270		
1000 - 2500	H / V	3 V/m (rms) AM Modulated 1000Hz, 80%	0	**OK**	**PASS**
			90		
			180		
			270		

Note:

1) P/N denotes the Positive/Negative polarity of the output voltage.
2) N/A - denotes test is not applicable in this test report.

5.7 EFT/BURST TESTING

5.7.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-4
Required Performance	Compliance is checked by the following tests and determined during and after the tests in accordance with 6.2.1.10).
Test Voltage :	Power Line: 2 kV Signal/Control Line: 0.5 kV
Polarity:	Positive & Negative
Impulse Frequency:	5 kHz
Impulse Wave shape :	5/50 ns
Burst Duration:	15 ms
Burst Period:	300 ms
Test Duration:	Not less than 1 min.

5.7.2 MEASUREMENT INSTRUMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	THE MODULAR SOLUTION FOR 6 KV APPLICATIONS	Teseq	NSG 3060	1423	Aug. 24, 2014

Remark: ” N/A” denotes No Model Name / Serial No. and No Calibration specified.

5.7.3 TEST PROCEDURE

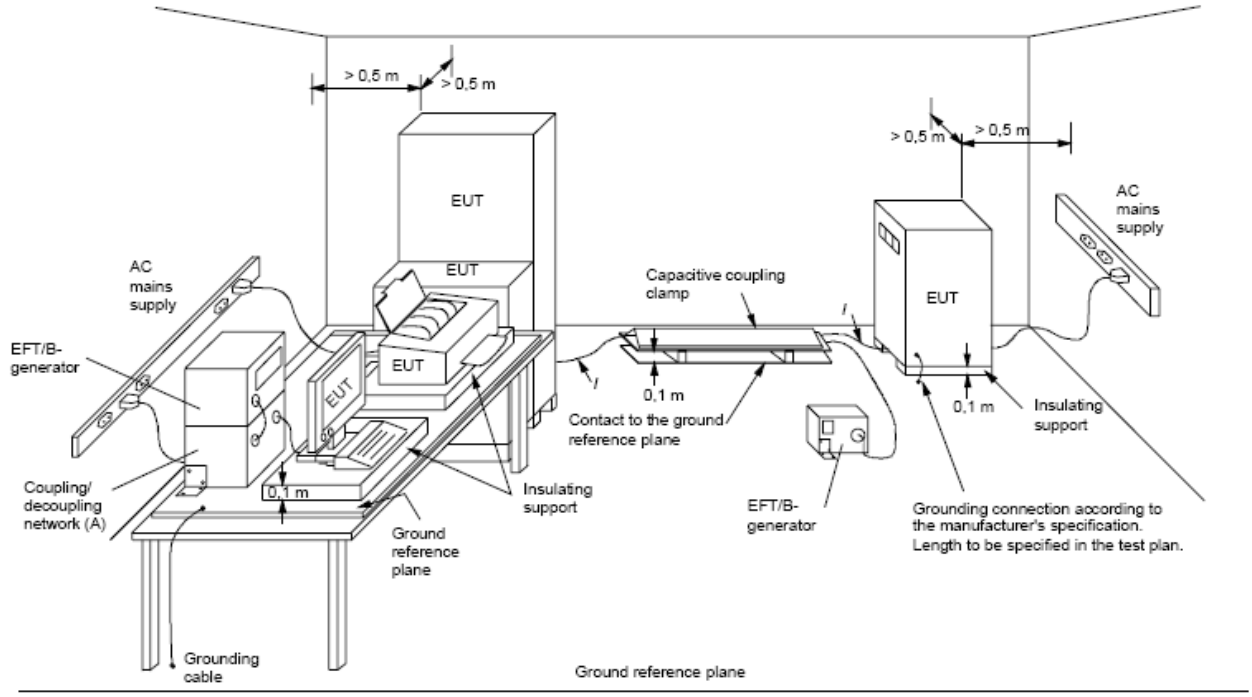
The EUT and support equipment(s) are placed on a table that is 0.8 meter high above a metal ground plane and should be located 0.1 m+/- 0.01m high above the Ground Reference Plane (1m*1m min. and 0.65mm thick min).
The other condition as following manner:

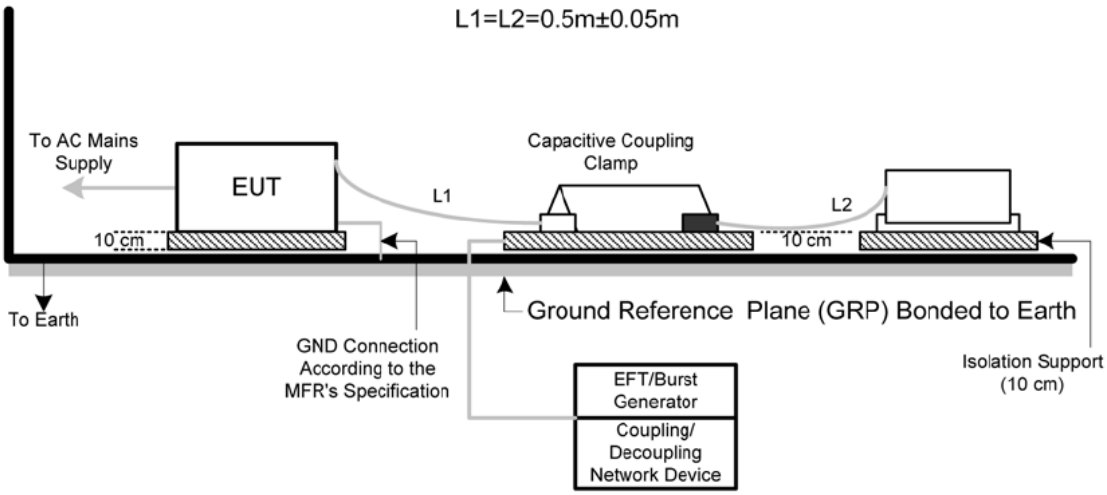
a. The length of power cord between the coupling device and the EUT should not exceed 1 meter.
b. Both positive and negative polarity discharges were applied.
c. The duration time of each test sequential was 1 minute
d. For the actual test configuration, please refer to the related Item –EUT Test Photos.

5.7.4 DEVIATION FROM TEST STANDARD

No deviation

5.7.5 TEST SETUP





Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table (0.8m high) standing on the Ground Reference Plane and should be located 0.1 m+/- 0.01m above the Ground Reference Plane. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system. A minimum distance of 0.5m was provided between the EUT and the walls of the laboratory or any other metallic structure.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-4 and its cables, were isolated from the Ground Reference Plane by an insulating support that is 0.1-meter thick. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system.

5.7.6 TEST RESULTS

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	25℃	Relative Humidity：	50%
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao		

Mode	(**X**) AC Power Line		( ) DC Power Line		( ) Signal/Control Line	
Test Level	2kV		2kV		0.5kV	
Port(s)	Polarity	Results	Polarity	Results	Polarity	Results
Line (L)	P	OK1	P		P	
	N	OK1	N		N	
Neutral (N)	P	OK1	P		P	
	N	OK1	N		N	
Ground (PE)	P	OK1	P		P	
	N	OK1	N		N	
Signal/ Line (N/A)	P		P		P	
	N		N		N	
Result	**OK**		**N/A**		**N/A**	
Judgment	**PASS**		**N/A**		**N/A**	

Note:

1) P/N denotes the Positive/Negative polarity of the output voltage.

2) N/A - denotes test is not applicable in this test report

3) OK1: Screen flickering interference.

5.8 SURGE TESTING

5.8.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-5
Required Performance	Compliance is checked by the following tests and determined during and after the tests in accordance with 6.2.1.10).
Wave-Shape:	Combination Wave 1.2/50 us Open Circuit Voltage 8 /20 us Short Circuit Current
Test Voltage :	Power Line：0.5 kV, 1 kV, 2 kV
Surge Input/Output:	L1-L2, L1-PE, L2-PE
Generator Source:	2 ohm between networks
Impedance:	12 ohm between network and ground
Polarity:	Positive/Negative
Phase Angle:	0 /90/180/270
Pulse Repetition Rate:	1 time / min. (maximum)
Number of Tests:	5 positive and 5 negative at selected points

5.8.2 MEASUREMENT INSTRUMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	THE MODULAR SOLUTION FOR 6 KV APPLICATIONS	Teseq	NSG 3060	1423	Aug. 24, 2014

Remark: ” N/A” denotes No Model Name / Serial No. and No Calibration specified.

5.8.3 TEST PROCEDURE

a. For EUT power supply:
The surge is to be applied to the EUT power supply terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines, and to provide sufficient decoupling impedance to the surge wave. The power cord between the EUT and the coupling/decoupling networks shall be 2meters in length (or shorter).

b. For test applied to unshielded unsymmetrically operated interconnection lines of EUT:
The surge is applied to the lines via the capacitive coupling. The coupling /decoupling networks shall not influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).

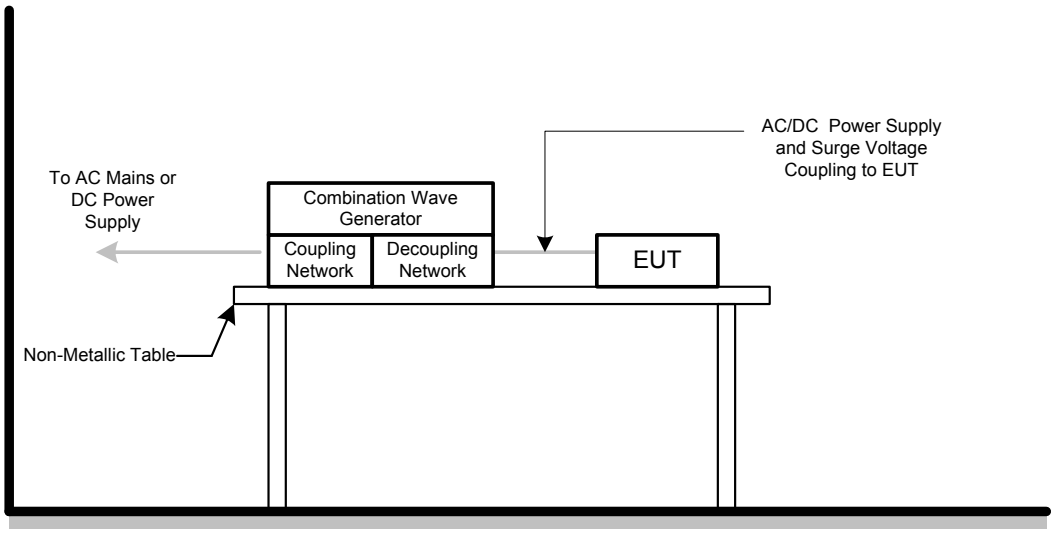
c. For test applied to unshielded symmetrically operated interconnection /telecommunication lines of EUT:
The surge is applied to the lines via gas arrestors coupling. Test levels below the ignition point of the coupling arrestor cannot be specified. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).

d. For the actual test configuration, please refer to the related Item –EUT Test Photos.

5.8.4 DEVIATION FROM TEST STANDARD

No deviation

5.8.5 TEST SETUP



5.8.6 TEST RESULTS

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	25℃	Relative Humidity：	50%
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao		

Wave Form EUT Ports Tested		1.2/50(8/20)Ti/Th us						Judgment
		Polarity	Phase	Voltage				
				0.5kV	1kV	1.5kV	2kV	
AC	L - N	+/-	0°	OK	OK			**PASS**
		+/-	90°	OK	OK			
		+/-	180°	OK	OK			
		+/-	270°	OK	OK			
	L - PE	+/-	0°	OK	OK	OK	OK	**PASS**
		+/-	90°	OK	OK	OK	OK	
		+/-	180°	OK	OK	OK	OK	
		+/-	270°	OK	OK	OK	OK	
	N - PE	+/-	0°	OK	OK	OK	OK	**PASS**
		+/-	90°	OK	OK	OK	OK	
		+/-	180°	OK	OK	OK	OK	
		+/-	270°	OK	OK	OK	OK	

Note:

1) Polarity and Numbers of Impulses：5 Pst / Ngt at each tested mode

2) N/A - denotes test is not applicable in this Test Report

5.9 INJECTION CURRENT TESTING

5.9.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-6
Required Performance	Compliance is checked by the following tests and determined during and after the tests in accordance with 6.2.1.10).
Frequency Range:	0.15 MHz - 80 MHz
Field Strength:	3 Vr.m.s.
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1% of fundamental
Dwell Time:	at least 3 seconds

5.9.2 MEASUREMENT INSTRUMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Signal Generator	HP	8648A	3636A02964	Apr. 25, 2014
2	Power Amplifier	Teseq	CBA230M-080	T43748	Apr. 25, 2014
3	CDN	MEB	M3	13389	Apr. 25, 2014
4	Power CDN	FCC	FCC-801-M2/M3-16A	100270	Apr. 25, 2014
5	Power CDN	FCC	FCC-801-M2/M3-16A	100271	Apr. 25, 2014

Remark: ” N/A” denotes No Model Name / Serial No. and No Calibration specified.

5.9.3 TEST PROCEDURE

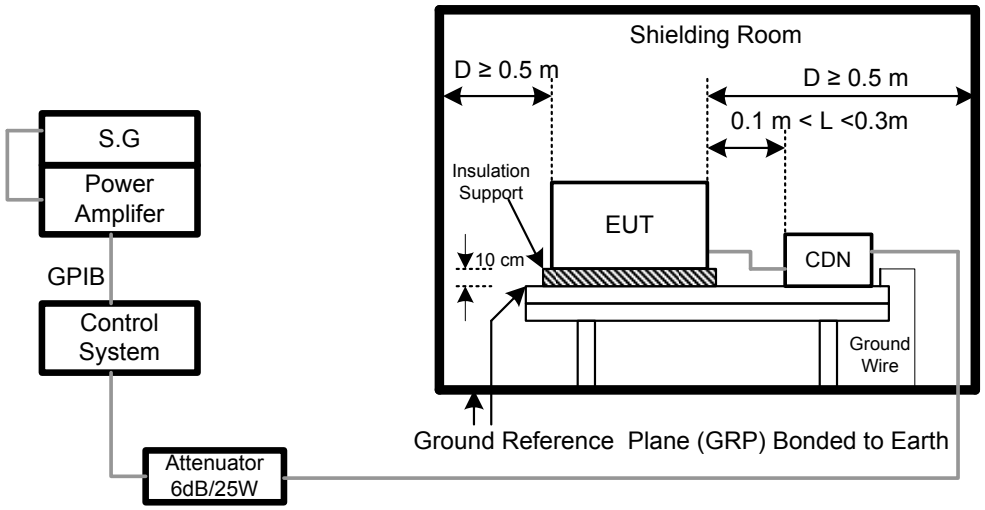
The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.
The other condition as following manner:

a. The field strength level was 3V.
b. The frequency range is swept from 150 KHz to 80 MHz, with the signal 80% amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5x 10-3 decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
c. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
d. For the actual test configuration, please refer to the related Item –EUT Test Photos.

5.9.4 DEVIATION FROM TEST STANDARD

No deviation

5.9.5 TEST SETUP



For the actual test configuration, please refer to the related Item –EUT Test Photos.

NOTE:

FLOOR-STANDING EQUIPMENT

The equipment to be tested is placed on an insulating support of 0.1 meters height above a ground reference plane. All relevant cables shall be provided with the appropriate coupling and decoupling devices at a distance between 0.1 meters and 0.3 meters from the projected geometry of the EUT on the ground reference plane.

5.9.6 TEST RESULTS

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	25℃	Relative Humidity：	50%
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao		

Test Ports (Mode)	Freq. Range(MHz)	Field Strength	Results	Judgment
Input/ Output AC. Power Port	0.15 ---80	3V(rms) AM Modulated 1000Hz, 80%	**OK**	**PASS**
Input/ Output DC. Power Port	0.15 --- 80		**N/A**	**N/A**
Signal Line (N/A)	0.15 --- 80		**N/A**	**N/A**

Note:

1) N/A - denotes test is not applicable in this Test Report.

5.10 POWER FREQUENCY MAGNETIC FIELD TESTING

5.10.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-8
Required Performance	Compliance is checked by the following tests and determined during and after the tests in accordance with 6.2.1.10).
Frequency Range:	50/60Hz
Field Strength:	3 A/m
Observation Time:	1 minute
Inductance Coil:	Rectangular type, 1mx1m

5.10.2 MEASUREMENT INSTRUMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Magnetic Field Test Generator	FCC	F-1000-4-8-G-125A	04032	Apr. 25, 2014
2	Magnetic Field immunity loop	Thermo KeyTek	F-1000-4-8/9/10-L-1M	04024	Apr. 25, 2014

Remark: ” N/A” denotes No Model Name / Serial No. and No Calibration specified.

5.10.3 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

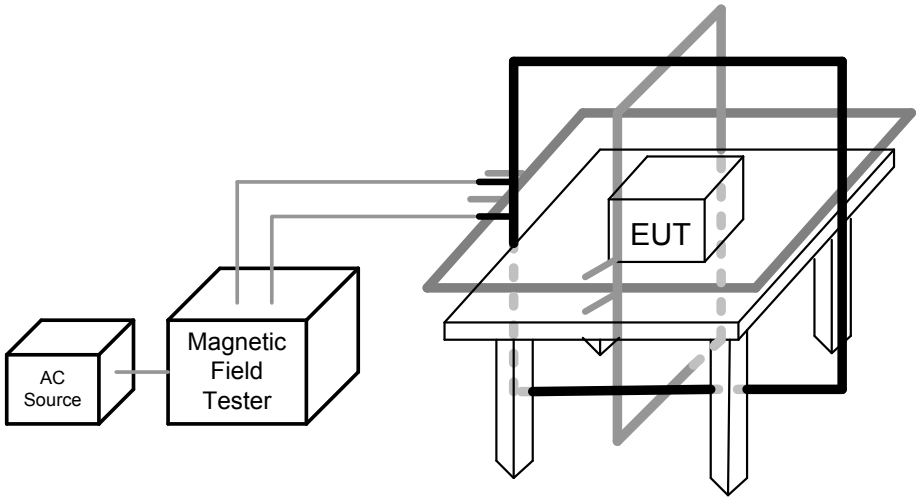
The other condition as following manner:

a. The equipment cabinets shall be connected to the safety earth directly on the GRP via the earth terminal of the EUT.
b. The cables supplied or recommended by the equipment manufacturer shall be used. 1 meter of all cables used shall be exposed to the magnetic field.
c. For the actual test configuration, please refer to the related Item –EUT Test Photos.

5.10.4 DEVIATION FROM TEST STANDARD

No deviation

5.10.5 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The equipment shall be subjected to the test magnetic field by using the induction coil of standard dimension (1 m x 1 m). The induction coil shall then be rotated by 90 degrees in order to expose the EUT to the test field with different orientations.

FLOOR-STANDING EQUIPMENT

The equipment shall be subjected to the test magnetic field by using induction coils of suitable dimensions. The test shall be repeated by moving and shifting the induction coils, in order to test the whole volume of the EUT for each orthogonal direction. The test shall be repeated with the coil shifted to different positions along the side of the EUT, in steps corresponding to 50% of the shortest side of the coil. The induction coil shall then be rotated by 90 degrees in order to expose the EUT to the test field with different orientations.

5.10.6 TEST RESULTS

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	25℃	Relative Humidity：	50%
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao		

Test Mode	Test Level	Antenna aspect	Duration(s)	Results	Judgment
Enclosure	3 A/m 50/60Hz	X	60 s	**OK**	**PASS**
Enclosure	3 A/m 50/60Hz	Y	60 s	**OK**	**PASS**
Enclosure	3 A/m 50/60Hz	Z	60 s	**OK**	**PASS**

Note:

1) N/A - denotes test is not applicable in this test report

5.11 VOLTAGE INTERRUPTION/DIPS TESTING

5.11.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-11
Required Performance	Compliance is checked by the following tests and determined during and after the tests in accordance with 6.2.1.10). EQUIPMENT or SYSTIMES are allowed a deviation from the requirement of 36.202.1 j at the IMMUNITY TEST LEVEL for voltage interruption.
Test Duration Time:	Minimum three test events in sequence
Interval between Event:	Minimum ten seconds
Phase Angle:	0°/45°/90°/135°/180°/225°/270°/315°/360°
Test Cycle:	3 times

5.11.2 MEASUREMENT INSTRUMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	THE MODULAR SOLUTION FOR 6 KV APPLICATIONS	Teseq	NSG 3060	1423	Aug. 24, 2014

Remark: ” N/A” denotes No Model Name / Serial No. and No Calibration specified.

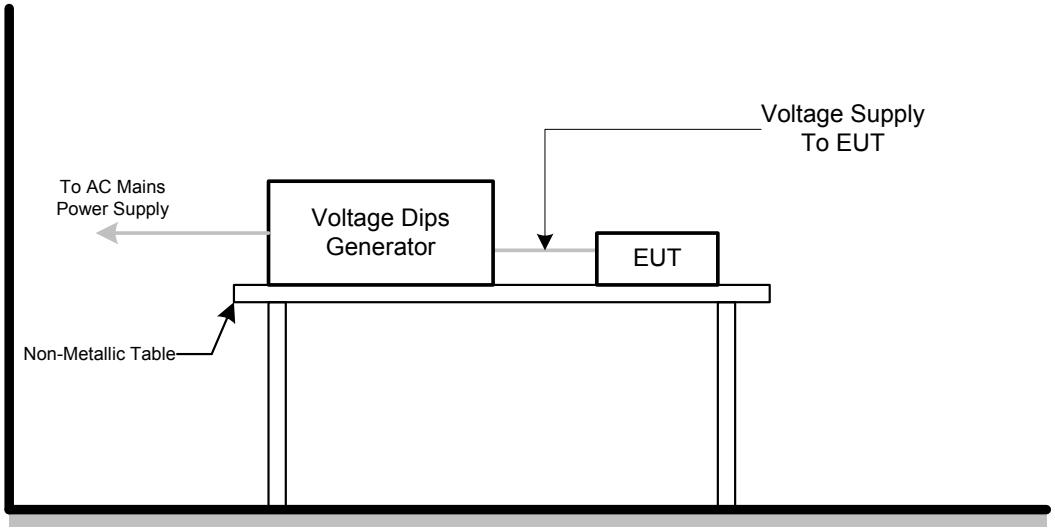
5.11.3 TEST PROCEDURE

The EUT shall be tested for each selected combination of test levels and duration with a sequence of three dips/interruptions with intervals of 10 s minimum (between each test event). Each representative mode of operation shall be tested. Abrupt changes in supply voltage shall occur at zero crossings of the voltage waveform.

5.11.4 DEVIATION FROM TEST STANDARD

No deviation

5.11.5 TEST SETUP



For the actual test configuration, please refer to the related Item –EUT Test Photos.

5.11.6 TEST RESULTS

EUT：	LCD Monitor	Model Name ：	DR-22
Temperature：	25℃	Relative Humidity：	50%
Pressure：	1010 hPa	Test Power ：	AC 230V/50Hz
Test Mode ：	DVI 1920*1080 60Hz Adapter: ATM065-P240	Panel(Brand/Model):	CHIMEI INNOLUX / M215HGE
Test Engineer :	Lucky Mao		

AC 230V/50Hz			
Voltage Reduction	Periods	Results	Judgment
Voltage dip ＞95%	0.5	**OK**	**PASS**
Voltage dip 30%	5	**OK**	**PASS**
Voltage dip 60%	25	**OK**	**PASS**
Interruption＞95%	5 seconds	**OK**	**PASS**

AC 100V/50Hz			
Voltage Reduction	Periods	Results	Judgment
Voltage dip ＞95%	0.5	**OK**	**PASS**
Voltage dip 30%	25	**OK**	**PASS**
Voltage dip 60%	25	**OK**	**PASS**
Interruption＞95%	5 seconds	**OK**	**PASS**

AC 240V/50Hz			
Voltage Reduction	Periods	Results	Judgment
Voltage dip ＞95%	0.5	**OK**	**PASS**
Voltage dip 30%	25	**OK**	**PASS**
Voltage dip 60%	25	**OK**	**PASS**
Interruption＞95%	5 seconds	**OK**	**PASS**

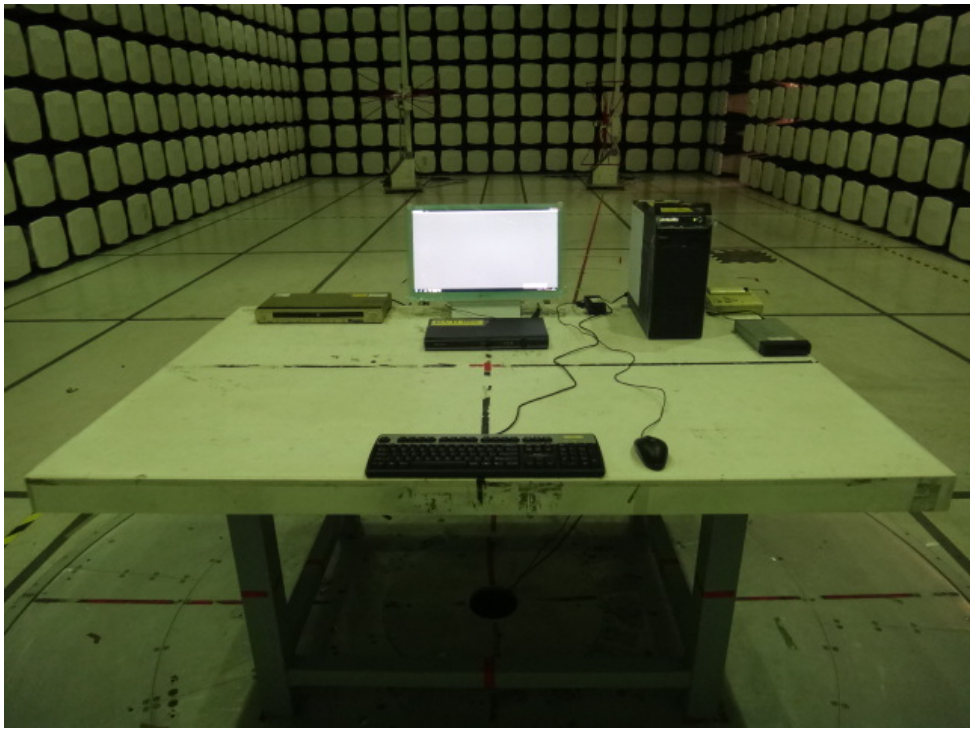
Note:

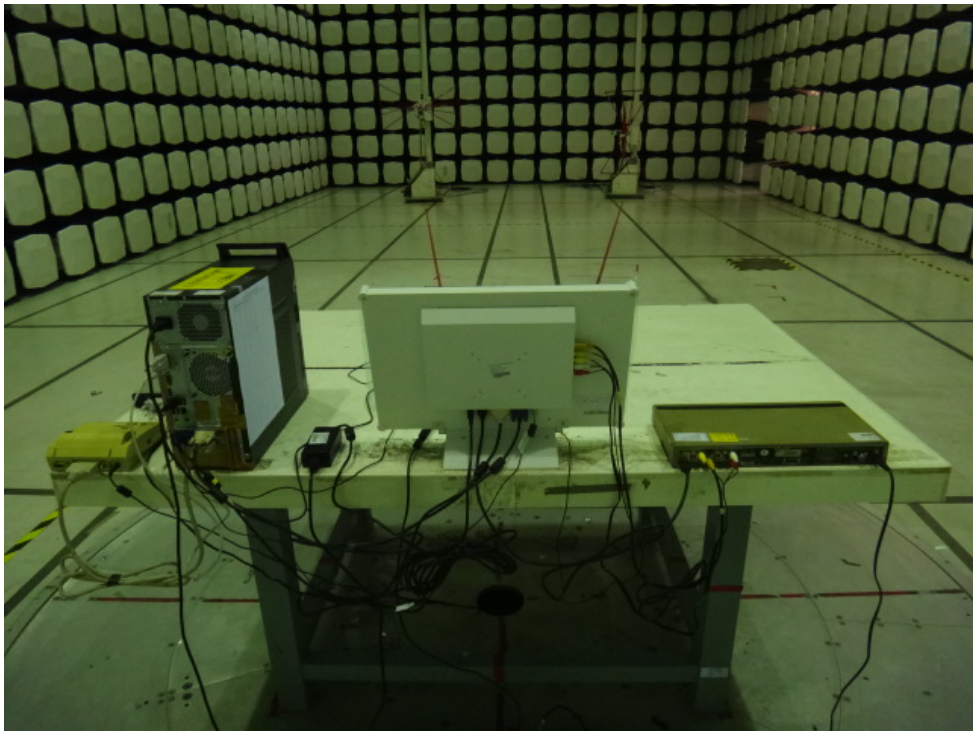
1) N/A - denotes test is not applicable in this test report.

6. EUT TEST PHOTO

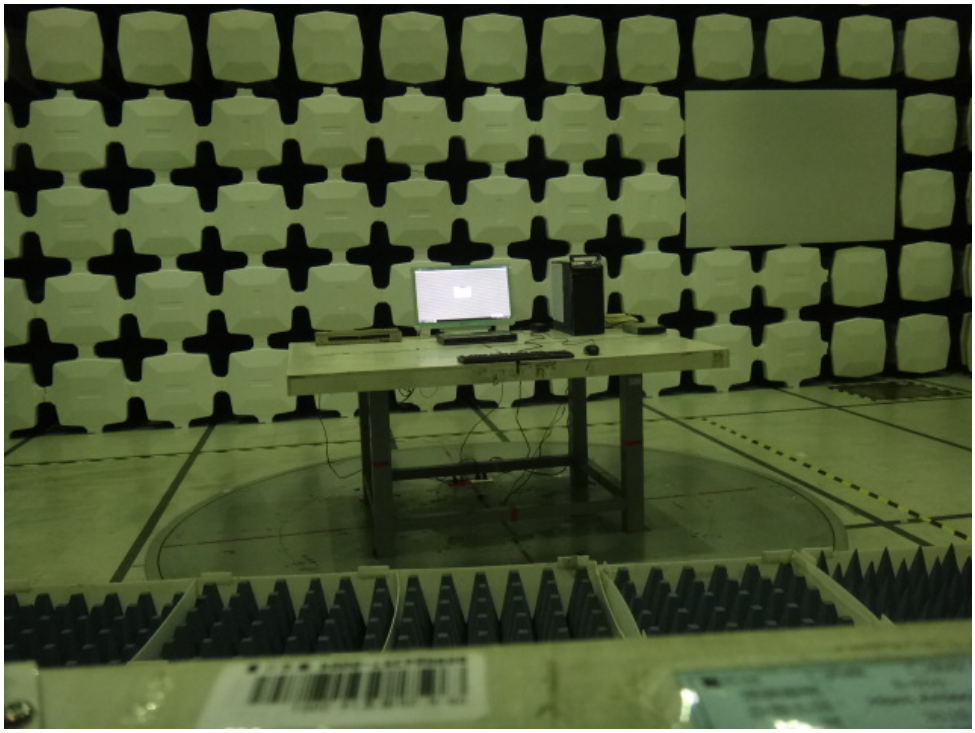
Conducted Measurement Photos

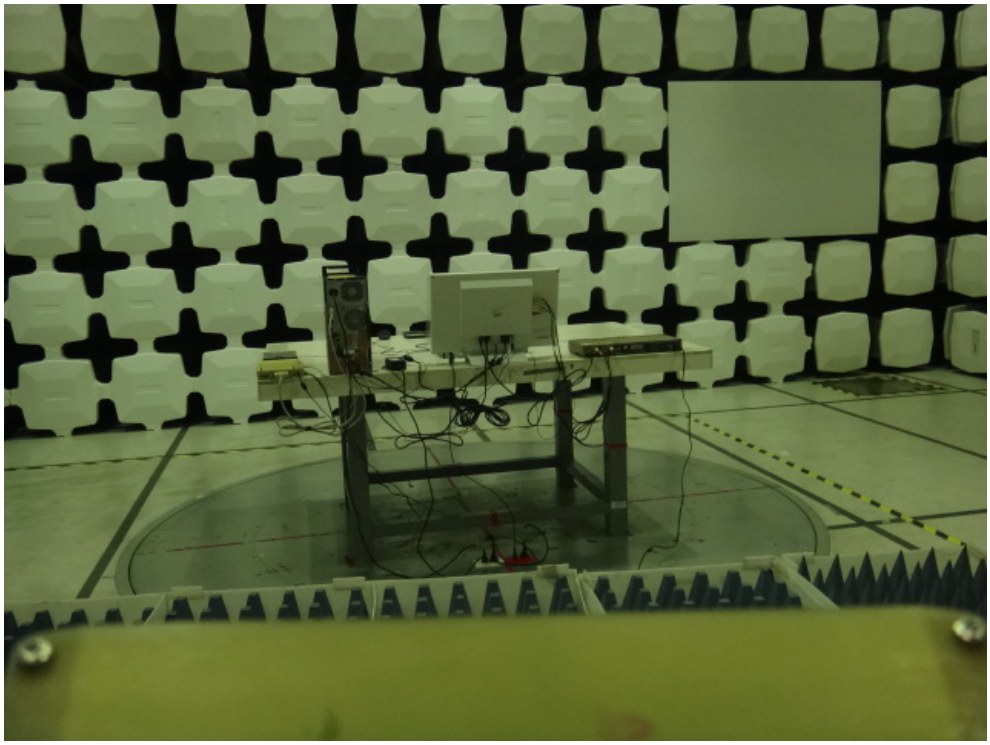
Radiated Measurement Photos
BETWEEN 30MHZ AND 1000MHZ





Radiated Measurement Photos
ABOVE 1000MHZ





Harmonic & Flicker Measurement Photos

EMS Measurement Photos
ESD

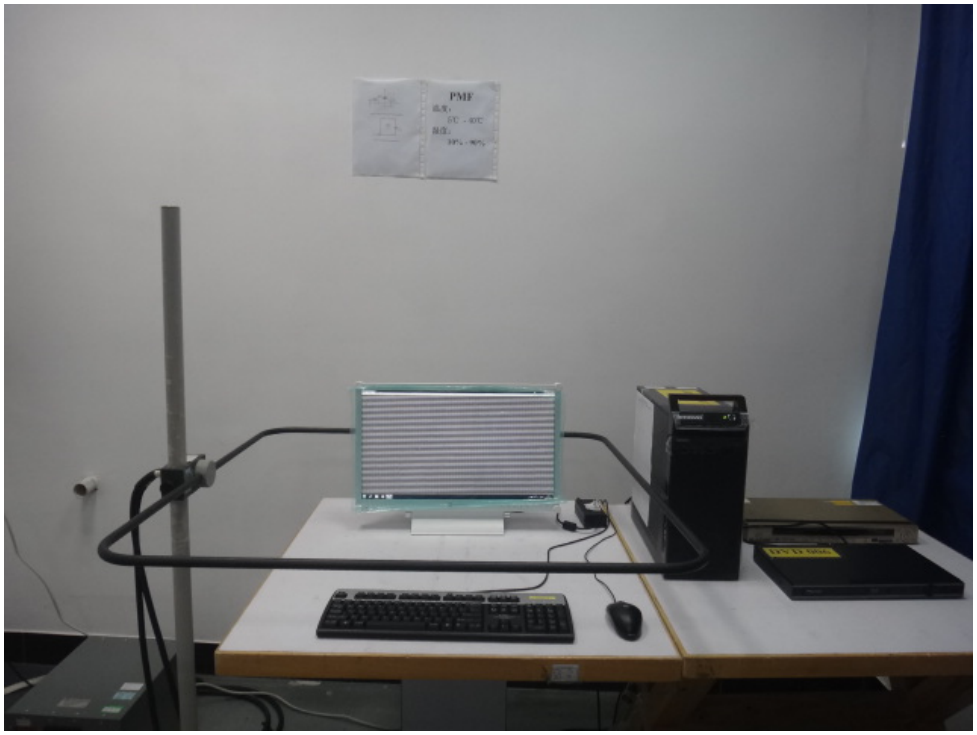
RS
80MHz - 1000MHz

RS
1000MHz - 2500MHz

EFT, Surge, DIP

CS

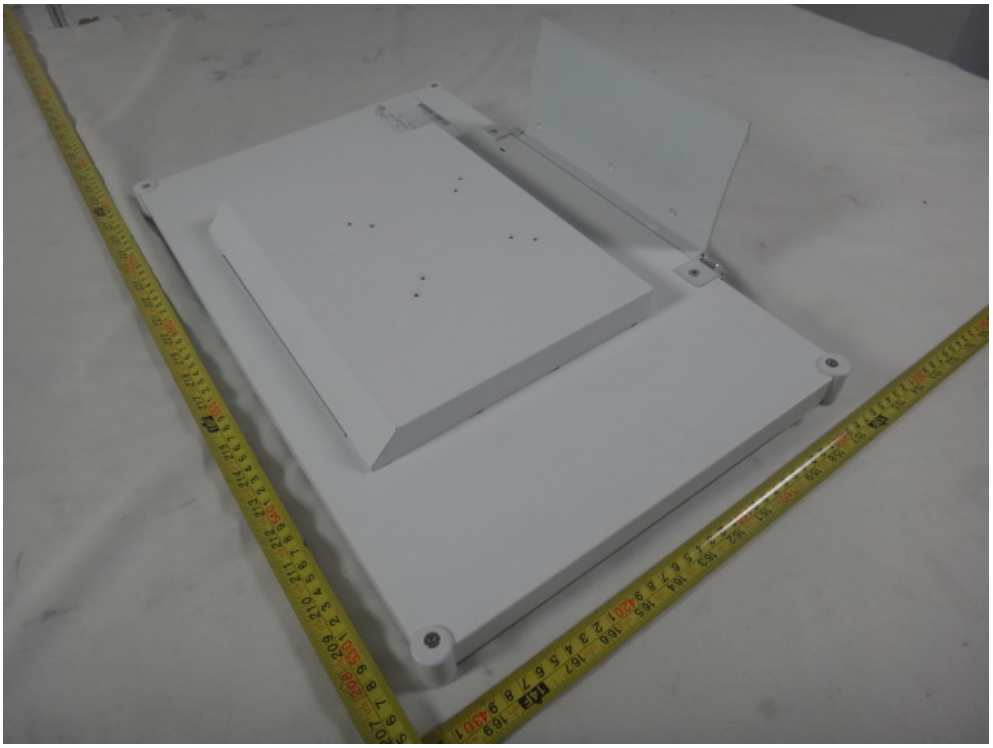
PMF

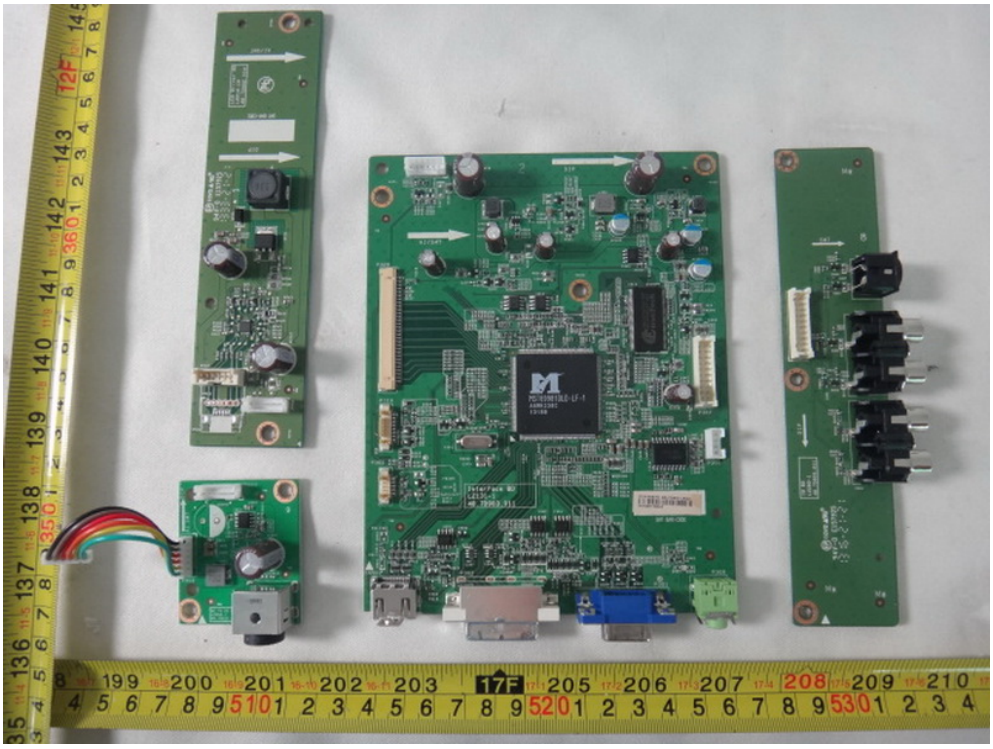


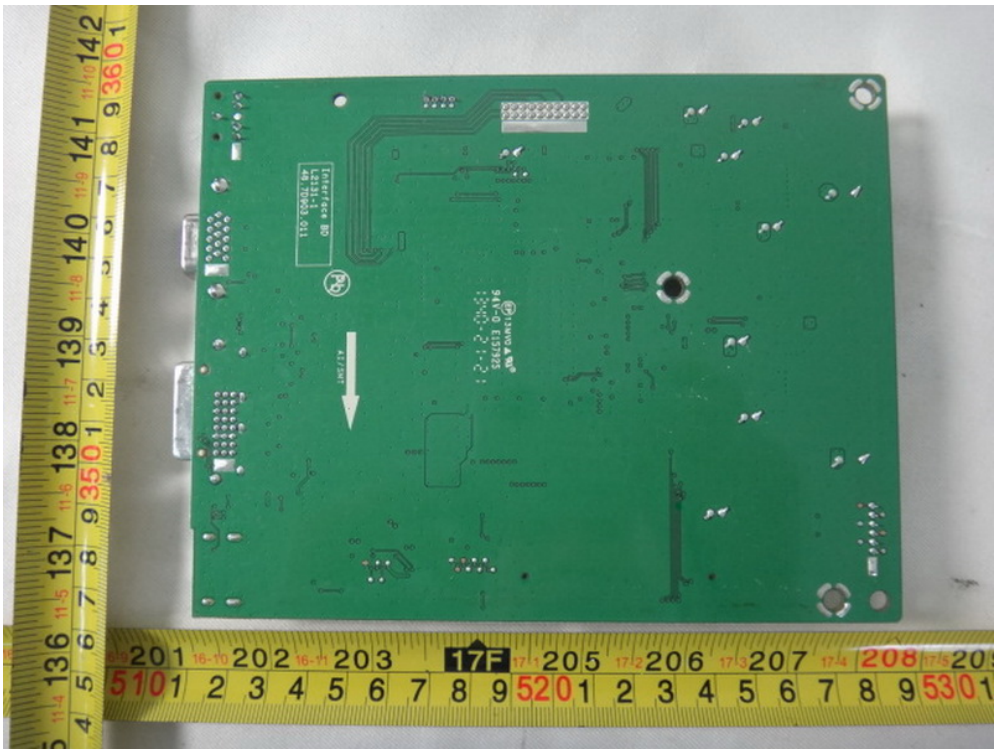
ATTACHMENT

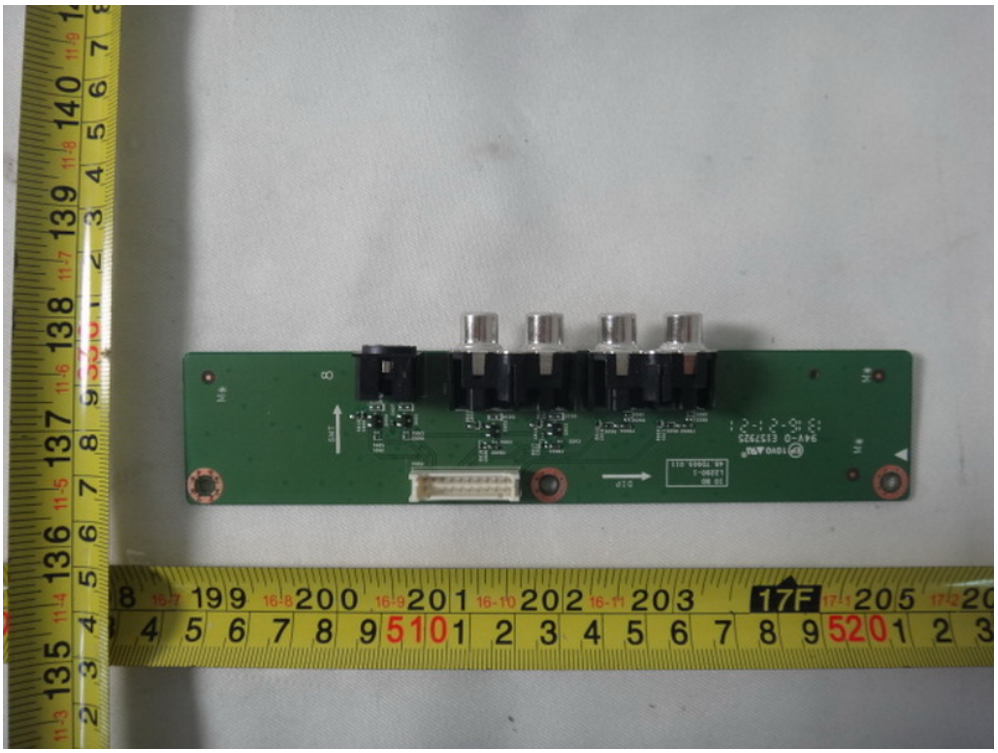
PHOTOGRAPHS OF EUT

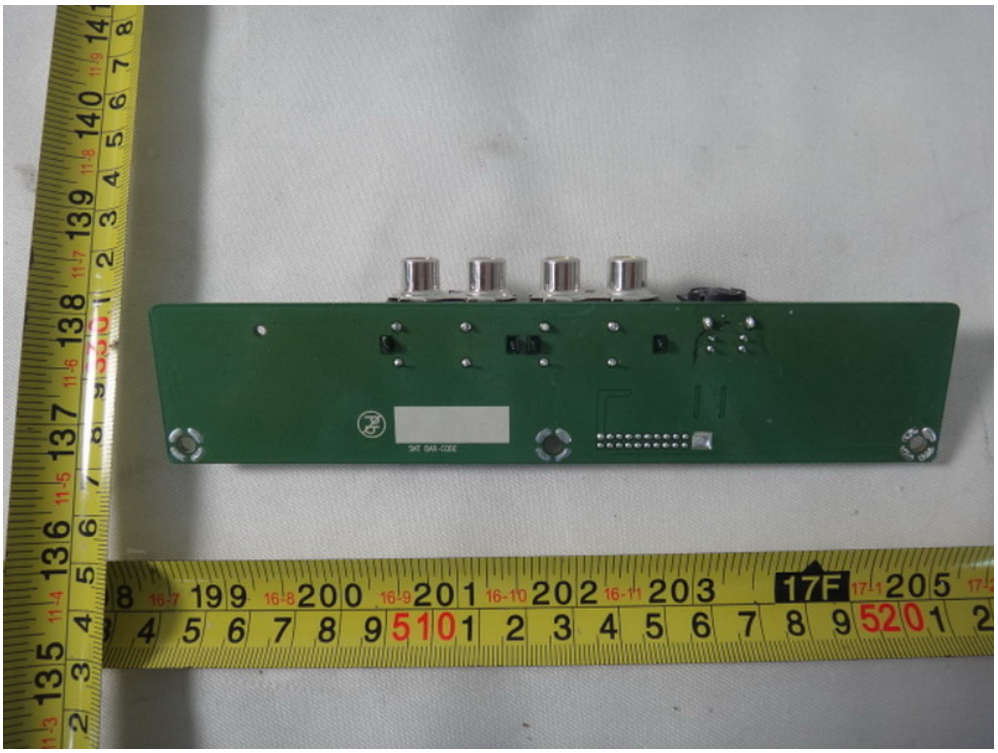
neovo

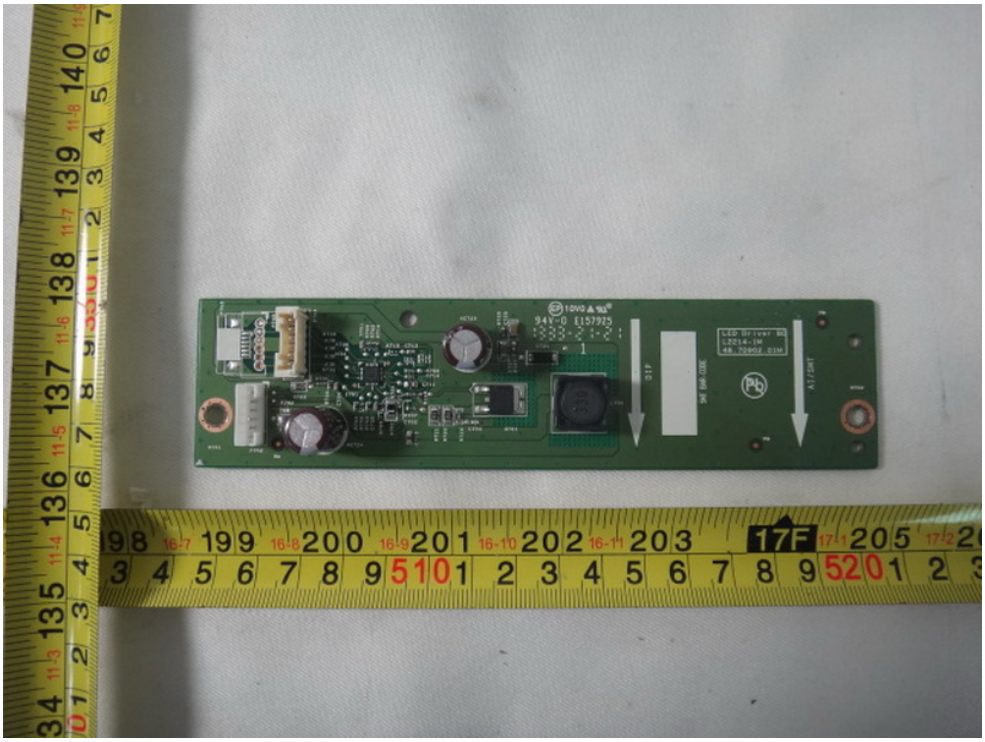


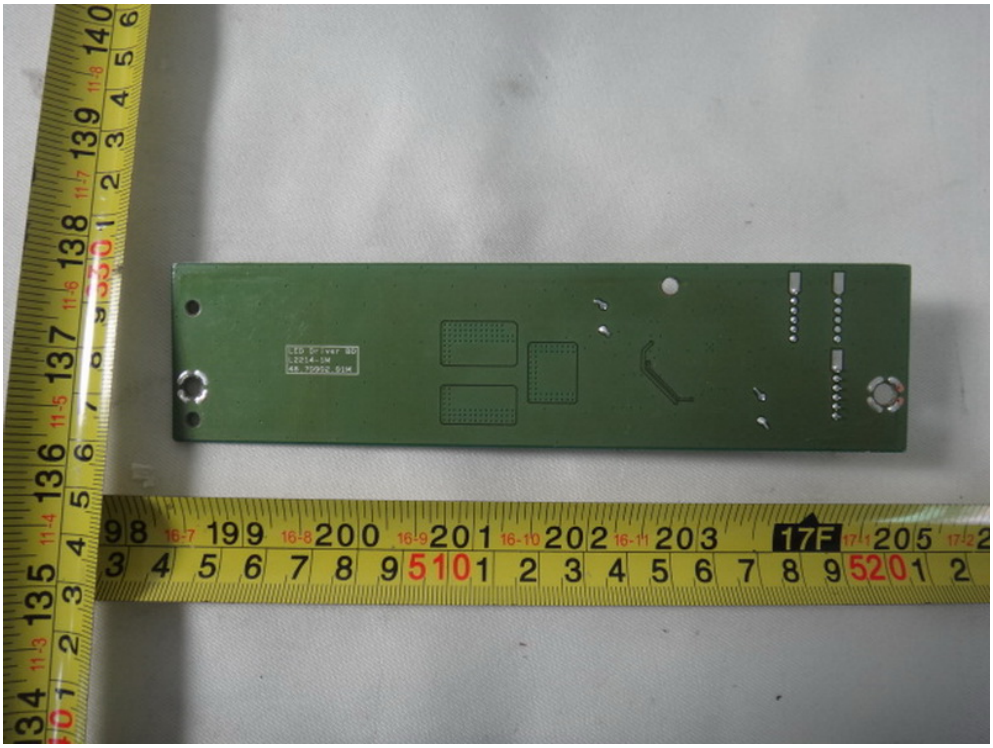


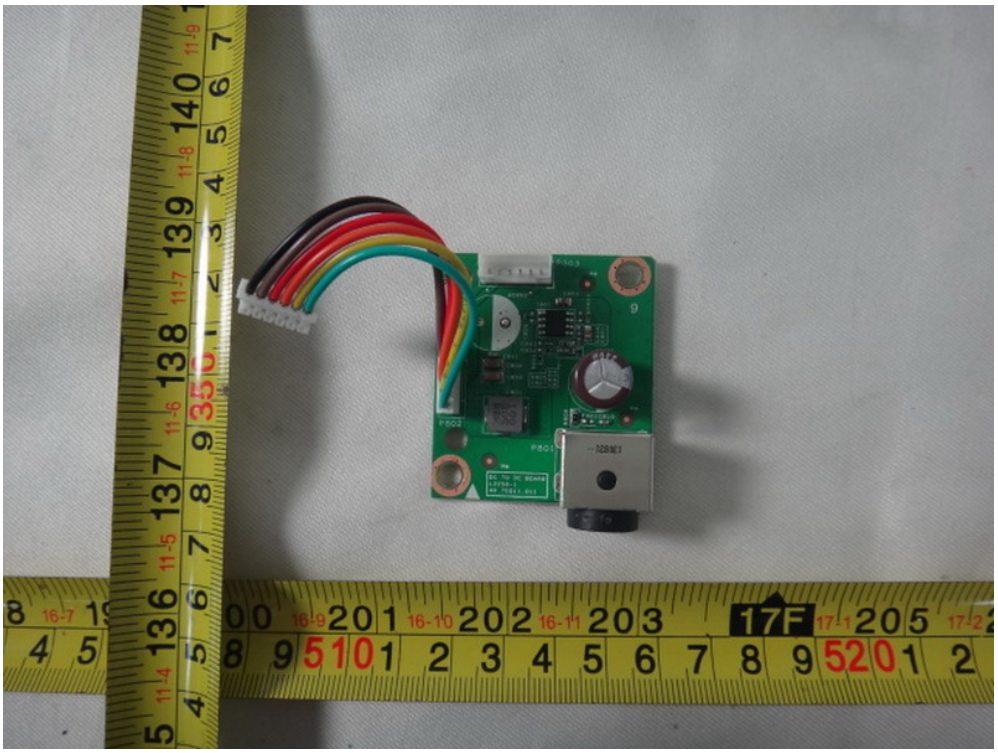


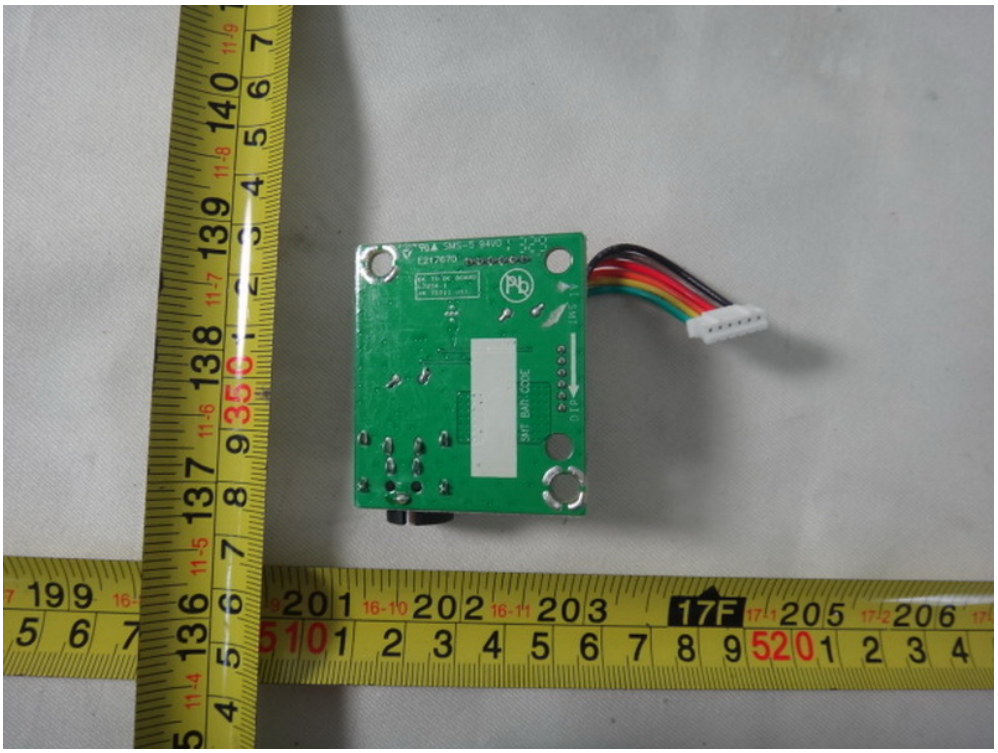


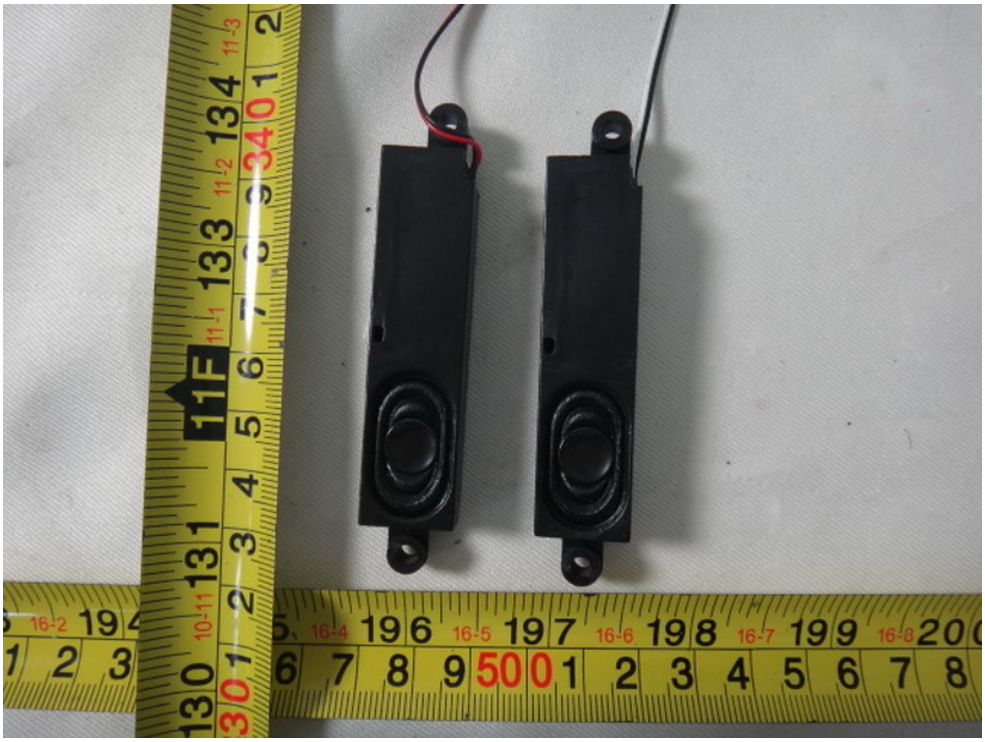


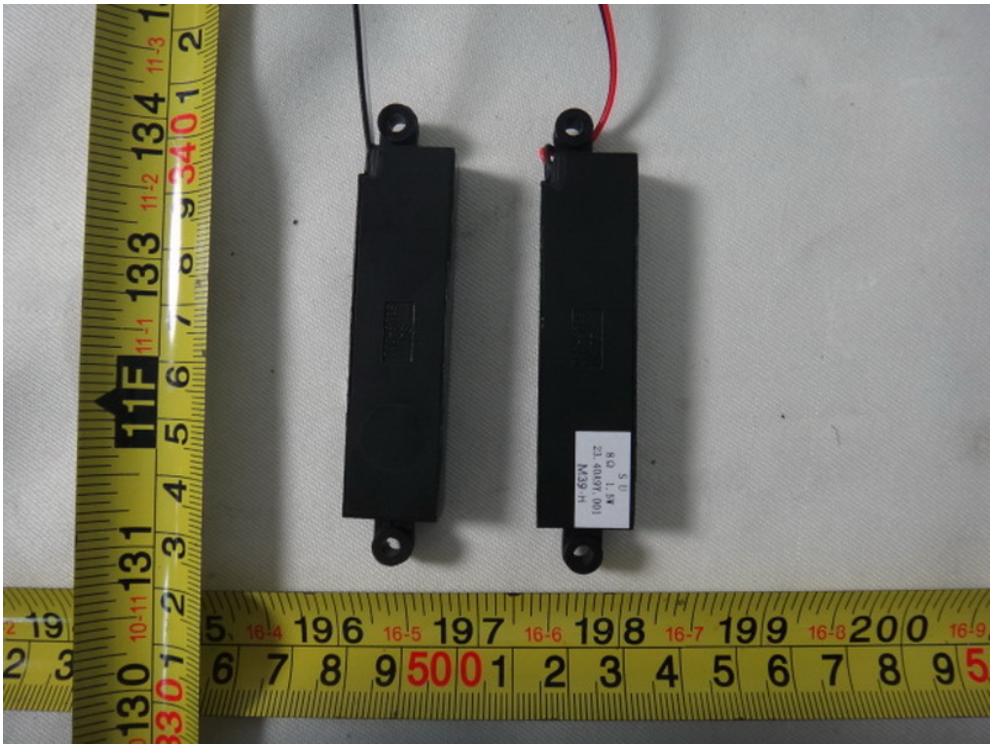


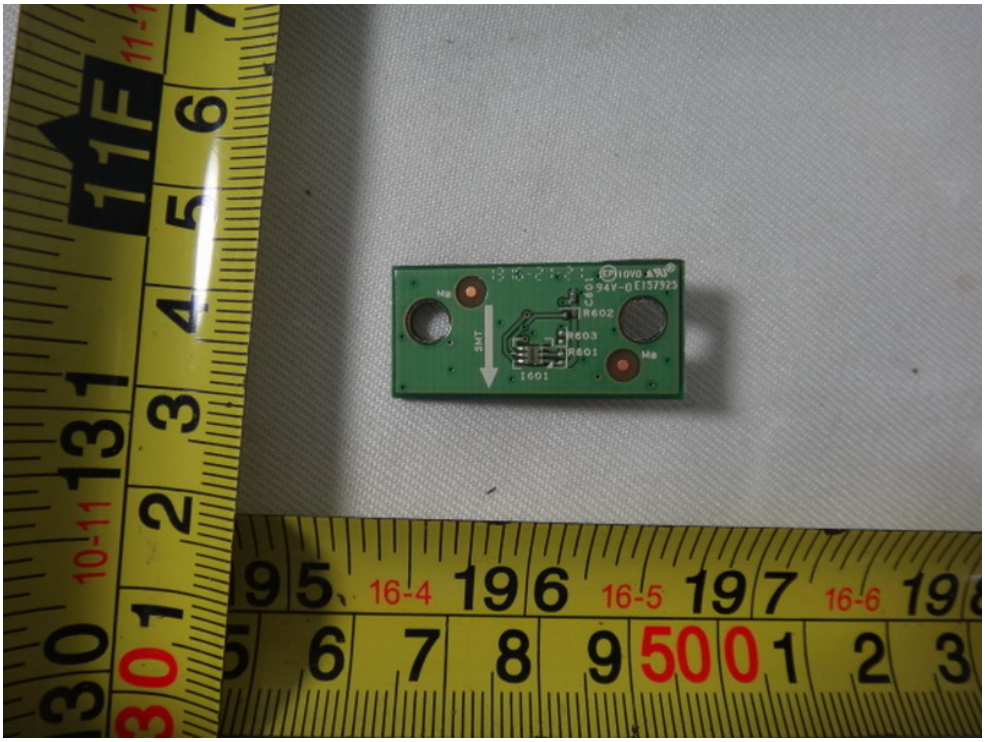











R602
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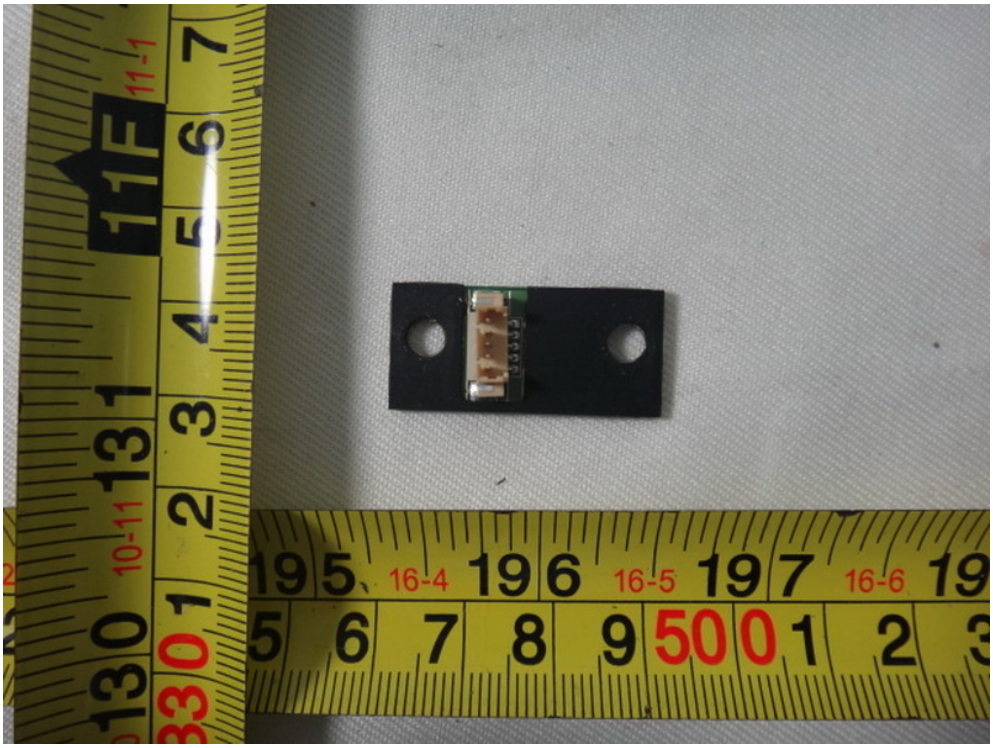

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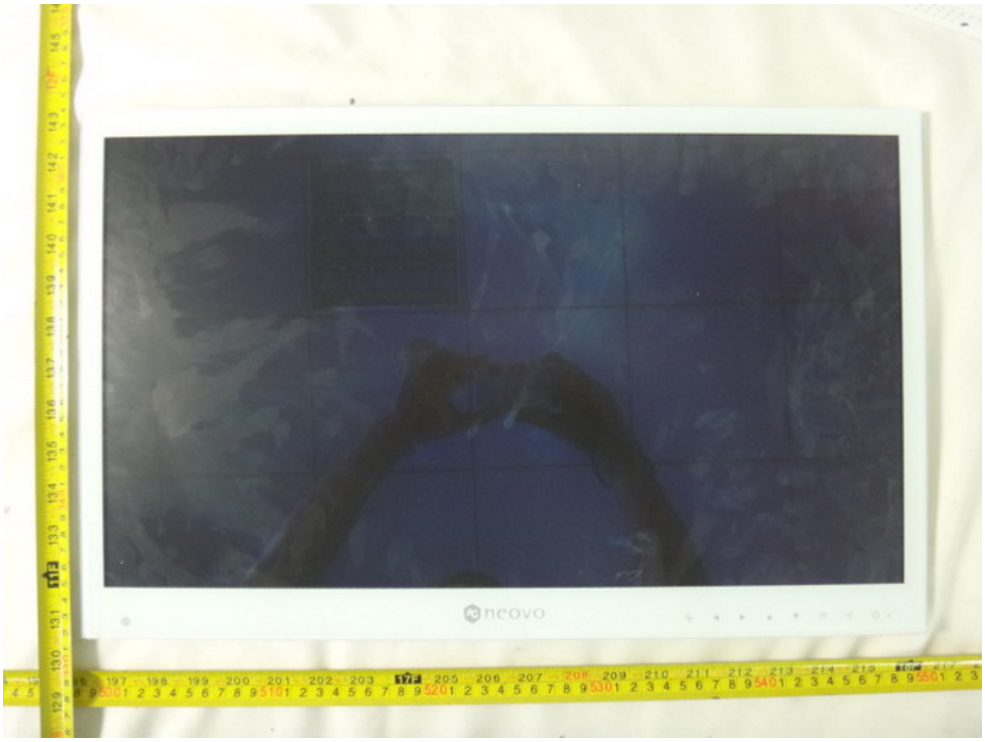

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